CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL

2000 W. 116TH STREET,
CARMEL, IN 46032

HAMILTON COUNTY PARKS

BID DOCUMENTS

APRIL 21, 2020

CONTACTS

ARCHITECTURE AND CIVIL ENGINEERING

Cripe®
Solutions by Design Since 1937

3939 PRIORITY WAY S. DR.,SUITE 200
INDIANAPOLIS, INDIANA 46240
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- ARCHITECTURE + INTERIORS
- CIVIL ENGINEERING
- SURVEY + 3D LASER SCANNING
- ENERGY + FACILITIES
- EQUIPMENT PLANNING
- REAL ESTATE SERVICES

Grass Roots Government - Est. 1833
Clay Township
Hamilton County, Indiana

Doug Callahan, Trustee
10701 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46280
Phone: (317) 846-2773

HAMILTON COUNTY PARKS & RECREATION DEPT.

15513 S UNION STREET
CARMEL, IN 46033
Phone: (317) 770-4400

MEP

DAE
DESIGN-AIRE ENGINEERING, INC.

2707 RAND RD.
INDIANAPOLIS, IN 46241
Phone: (317) 464-9090

LOCATION MAP

DRAWING INDEX

PROJECT ALTERNATES:

- METAL PERGOLA & ASSOCIATED WORK
- LEAF IMPRINTED CONCRETE SLAB EDGES
- MASONRY KNEE WALLS & GRILLS & ASSOCIATED WORK

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

CONSULTANTS

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TITLE SHEET

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN
46032

Licensed Professional

SKM F. MILLER
REGISTERED
No.
AR00880096
STATE OF INDIANA
ARCHITECT

Drawn By: CMT
Checked By: SFM
Quality Assurance: Approver
Scale: 12" = 1'-0"
Sheet: T001
Date: 2020/04/21
Project Number: 990433-10705

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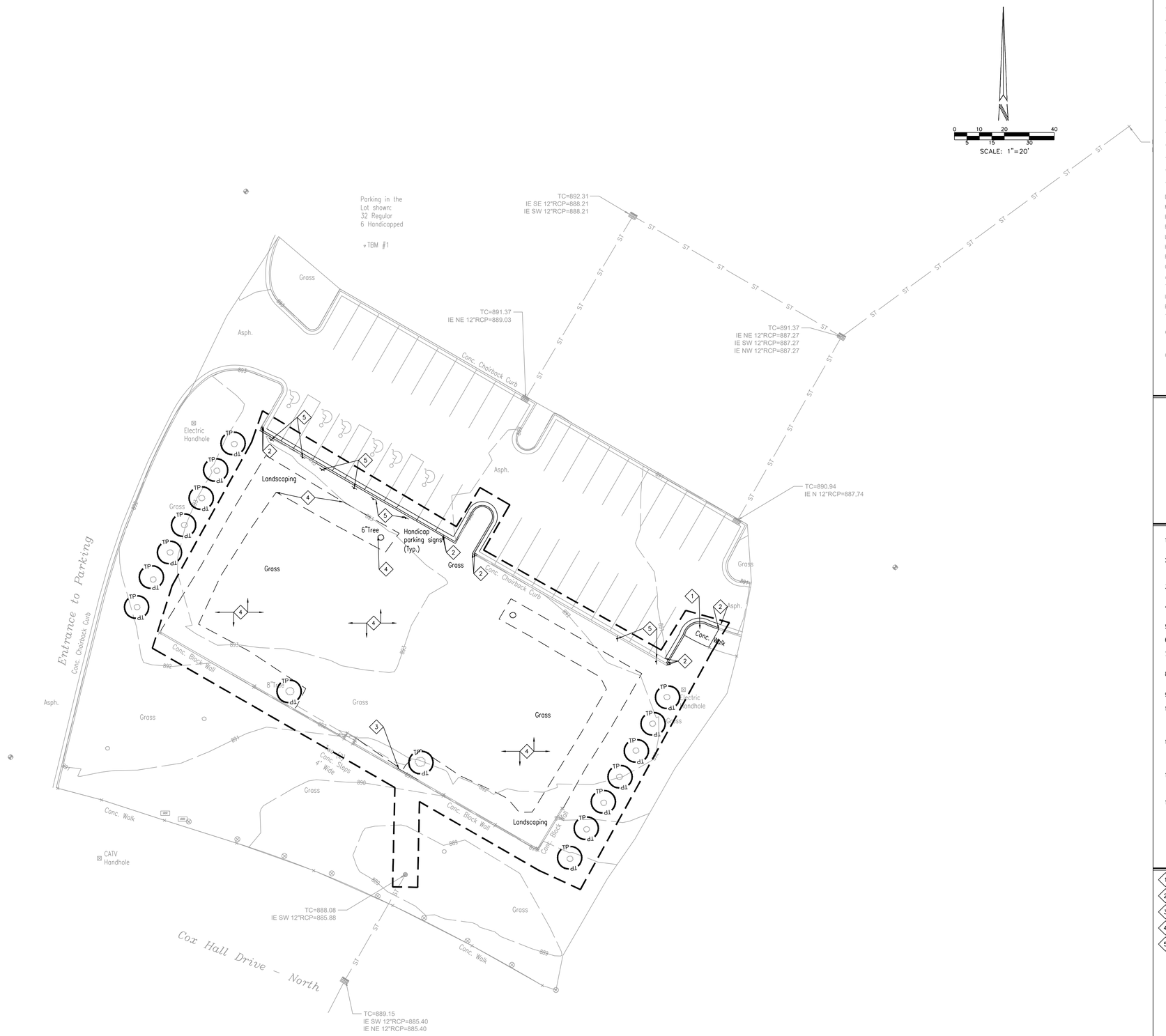

EXISTING CONDITIONS LEGEND

- SANITARY SEWER & MANHOLE
- STORM SEWER; END SECTION, INLET & M.H.
- GAS LINE
- WATER LINE
- ELECTRIC LINE (AERIAL)
- TELEPHONE LINE (AERIAL)
- CABLE TELEVISION (AERIAL)
- BURIED TELE. CABLE
- BURIED ELEC. CABLE
- FENCE LINE (FNC)
- BURIED CABLE TV
- GUARDRAIL
- RIGHT OF WAY LINE (R/W)
- PROPERTY LINE
- EASEMENT LINE
- CENTER LINE
- SWALE LINE

- POWER POLE
- GUY WIRE
- UTILITY RISER; TELEPHONE, ELECTRIC & CABLE TV
- ELECTRIC TRANSFORMER
- AIR CONDITIONER UNIT
- STREET LIGHT
- LIGHT POLE
- FLOOD LIGHT
- TRAFFIC MANHOLE AND SIGNAL POLE
- FIRE HYDRANT
- VALVE; GAS & WATER
- STREET SIGN
- WATER, TELEPHONE AND ELECTRIC MANHOLE
- SEWER CLEANOUT
- ELECTRIC, GAS AND WATER METER
- PIPELINE MARKER POST
- MAILBOX
- GUARD POST
- SPRINKLER HEAD
- IRRIGATION CONTROL BOX
- SPOT GRADE
- TOP CURB/GUTTER GRADE
- MONITORING WELL
- FIRE SERVICE STAND PIPE
- GAS VENT PIPE
- SEPTIC TANK LID
- WELL CAP
- AIR RELIEF VALVE
- UNDERGROUND TANK FILLER PIPE
- SITE ADDRESS

D.	DEED DIMENSION
M.	MEASURED DIMENSION
P.	PLAT DIMENSION
R.	RADIUS
L.	ARC LENGTH
H.H.	HANDHOLE
FND.	FOUND
CONC.	CONCRETE
ASPH.	ASPHALT
TC	TOP OF CASTING ELEVATION
IE	INVERT ELEVATION
FFE	FINISH FLOOR ELEVATION
TBM	TEMPORARY BENCHMARK

- DENOTES A 5/8" DIA. REBAR WITH YELLOW PLASTIC CAP SET, CAP STAMPED "CRIPE FIRM NO. 0055" UNLESS OTHERWISE NOTED.
- DENOTES A MAG NAIL WITH WASHER SET, WASHER STAMPED "CRIPE FIRM NO. 0055" UNLESS OTHERWISE NOTED.

DEMOLITION PLAN LEGEND

- SAWCUT AND REMOVE ASPHALT FROM SITE
- SAWCUT AND REMOVE CONCRETE FROM SITE
- CONSTRUCTION LIMITS
- TP TP TREE PRESERVATION FENCING

DEMOLITION PLAN NOTES

1. UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR IS TO DETERMINE AND FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. THE CONTRACTOR SHALL COORDINATE ALL WORK ASSOCIATED WITH THE ABANDONMENT, REMOVAL, RELOCATION, AND INSTALLATION OF UTILITIES WITH EVERY UTILITY COMPANY AND OBTAIN THEIR APPROVAL PRIOR TO PERFORMING ANY UTILITY WORK.
3. ALL DEMOLISHED MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED, AND SHALL BE LEGALLY DISPOSED OF OFF-SITE.
4. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PER SHEET C401 PRIOR TO COMMENCING DEMOLITION.
5. MAINTAIN PROPER DRAINAGE IN DEMOLITION AREAS.
6. SAWCUT CONCRETE AND ASPHALT SURFACES FOR REMOVAL AS NOTED.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE TO ALL BUILDINGS AND/OR SITE ENTITIES THAT ARE TO REMAIN.
8. THE CONCRETE TO BE SAWCUT SHALL BE SAWCUT TO THE NEAREST CONCRETE JOINT BEYOND THE LIMITS ILLUSTRATED. NOTIFY ENGINEER IF JOINT IS OVER ONE (1) FOOT FROM LINE SHOWN.
9. REMOVAL OR RELOCATION OF ALL LANDSCAPING MUST BE COORDINATED WITH OWNER.
10. OVERHEAD AND/OR UNDERGROUND ELECTRIC AND TELEPHONE CABLES THAT ARE SHOWN TO BE ABANDONED IN PLACE MAY BE CUT AS NECESSARY TO FACILITATE NEW CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT LINES ARE NOT ACTIVE PRIOR TO CUTTING AND OBTAIN UTILITY COMPANY APPROVAL PRIOR TO PERFORMING ANY DEMOLITION.
11. WATER LINES SHALL NOT BE ABANDONED OR DEMOLISHED UNTIL PROPOSED WATER MAINS HAVE BEEN INSTALLED TO A POINT SUCH THAT ONLY MINIMAL DISRUPTION IN WATER SERVICE TO THE EXISTING OCCUPIED BUILDINGS WILL OCCUR. CONTRACTOR TO COORDINATE ANY SERVICE SHUT DOWN WITH THE BUILDING OWNER AT LEAST 72 HOURS PRIOR TO SCHEDULING SHUT DOWN.
12. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
13. CONTRACTOR TO ESTABLISH NEW LOCAL SURVEY CONTROL SYSTEM (VERTICAL AND HORIZONTAL) PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. MANY TEMPORARY BENCHMARKS UTILIZED IN THE PREPARATION OF THE TOPOGRAPHIC SURVEY FOR THE DESIGN WILL BE RELOCATED AS PART OF CONSTRUCTION.

KEYNOTE LEGEND

1. SAWCUT AND REMOVE CONCRETE SIDEWALK TO THE NEAREST CONCRETE JOINT BEYOND THE LIMITS ILLUSTRATED. NOTIFY ENGINEER IF JOINT IS OVER ONE (1) FOOT FROM LINE SHOWN.
2. SAWCUT AND REMOVE ROLL CURB
3. REMOVE EXISTING DECORATIVE WALL TO INSTALL PIPING. WALL SHALL BE RE-INSTALLED AFTER STORM SEWER INSTALLED
4. REMOVE TREE, SHRUBS, UNDERBUSH, LANDSCAPING AND VEGETATION INCLUDING ROOT BALLS
5. REMOVE EXISTING SIGN, POLE AND FOUNDATION. SIGNS SHALL BE REINSTALLED UPON COMPLETION OF NEW SIDEWALK.

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EXISTING CONDITIONS AND DEMOLITION PLAN

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

CERTIFIED BY:

JOHN C. ZANT
REGISTERED
PE 18900434
STATE OF
INDIANA
PROFESSIONAL ENGINEER

Drawn By:	SDS
Checked By:	JCZ
Quality Assurance:	DJP
Scale:	1" = 20'
Sheet	C101
Date	2020/04/21
Project Number	990433-10705

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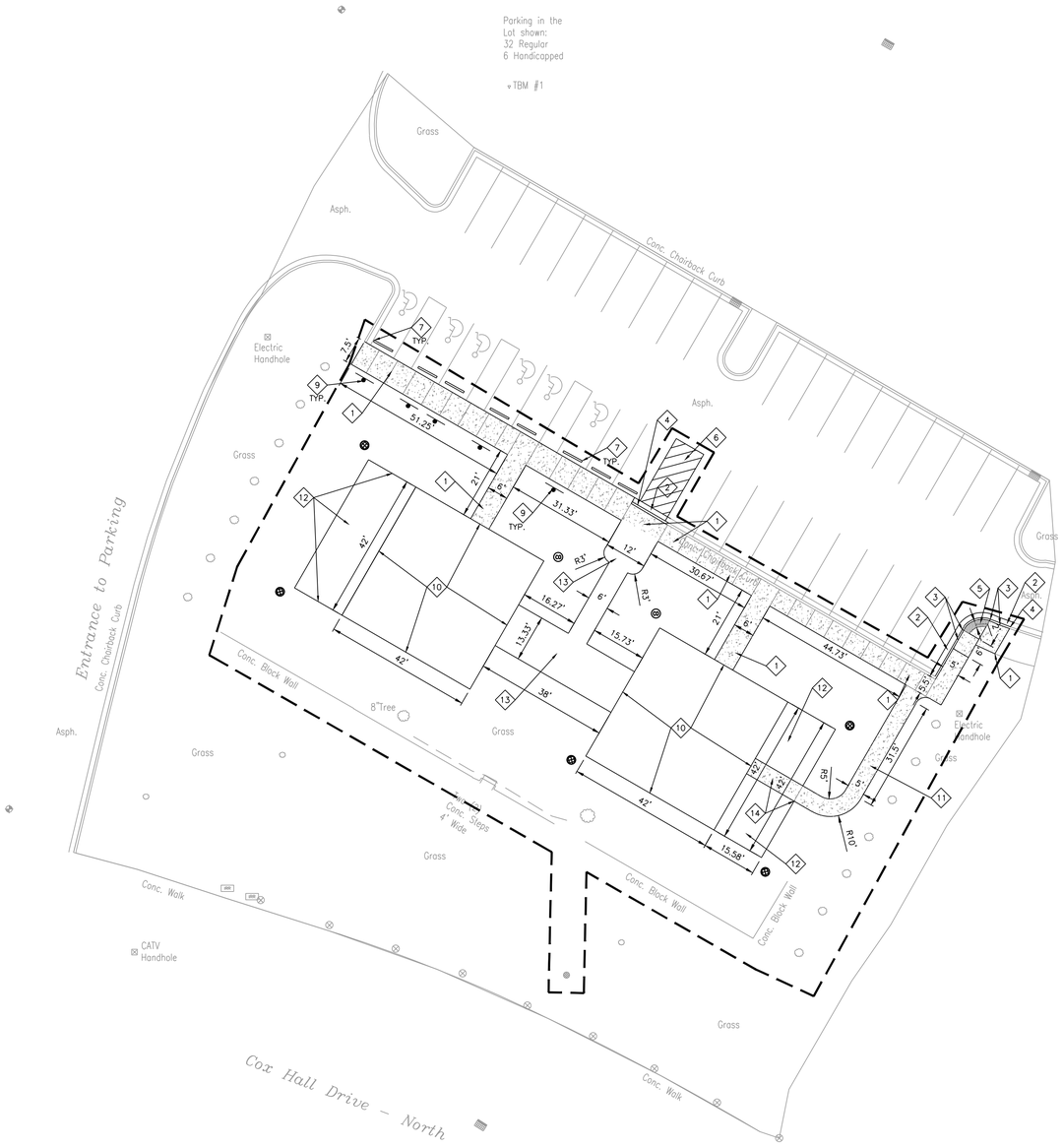

0 10 20 40
5 15 30
SCALE: 1"=20'

SITE PLAN LEGEND

- PROPERTY LINE
- EASEMENT LINE
- RIGHT-OF-WAY
- CONSTRUCTION LIMITS
- FENCE
- GUARD RAIL
- BUILDING LIMITS
- BICYCLE ROUTE
- (22) PARKING COUNT

SITE WORK GENERAL NOTES AND SPECIFICATIONS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING, THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, STATE AND ANY OTHER REGULATORY AGENCIES PRIOR TO STARTING CONSTRUCTION.
2. EXISTING UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE AND FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY AND OBTAIN APPROVAL FROM EACH RESPECTIVE UTILITY COMPANY PRIOR TO PERFORMING ANY WORK ON OR IN THE VICINITY OF EXISTING UTILITIES LINES AND APPURTENANCES.
4. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THE PROJECT; FAILURE TO DO SO MAY RESULT IN REMOVAL AND REPLACEMENT OF THE DEFECTIVE WORK. IT IS RECOMMENDED THAT THE DEVELOPER HAVE A QUALIFIED INSPECTOR ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
5. ALL QUANTITIES GIVEN ON THE PRINTS, VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTOR.
6. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
7. EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
8. IT IS ESSENTIAL THAT THE WORK TO BE COMPLETED IN CONJUNCTION WITH THIS PROJECT SHALL BE INSTALLED ACCORDING TO THESE PLANS AND SPECIFICATIONS. THE ENGINEER WILL BE REQUIRED TO CERTIFY TO CERTAIN PORTIONS OF THIS PROJECT UPON COMPLETION. THEREFORE, IT IS NECESSARY TO OBTAIN APPROVAL AND ACCEPTANCE BY THE CITY THAT CONSTRUCTION WAS COMPLETED IN COMPLIANCE WITH THESE PLANS AND SPECIFICATIONS.
9. LOCATIONS & ELEVATIONS OF "FLOODWAY LIMITS" AND "100 YEAR FLOOD LIMITS" ARE SHOWN FOR REFERENCE ONLY. DEVELOPER/BUILDER/INDIVIDUAL LOT OWNER TO REFER TO NATIONAL FLOOD HAZARD INSURANCE MAP (F.E.M.A.) TO DETERMINE FLOOD HAZARD POTENTIAL PRIOR TO PROJECT CONSTRUCTION.

SITE PLAN NOTES

1. ALL RADII AND STREET DIMENSIONS SHALL BE MEASURED TO BACK OF CURB OR FACE OF INTEGRAL CURB AND WALK. ALL DIMENSIONS TO THE BUILDING ARE TO THE OUTSIDE OF BUILDING FOUNDATION WALL.
2. ALL PAVEMENT AND/OR CURB RADII TO BE FIVE (5) FOOT UNLESS OTHERWISE NOTED.
3. BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. REFER TO RECORDED BOUNDARY SURVEYS, ALTAS AND SECONDARY PLATS FOR EXACT INFORMATION.
4. REFER TO ARCHITECTURAL PLANS FOR DETAILS OF BUILDINGS AND BUILDING DIMENSIONS.
5. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION SHALL CONFORM TO APPLICABLE LOCAL STANDARDS.
6. REFER TO UTILITY PLAN FOR SANITARY AND STORM STRUCTURE LOCATIONS.
7. REFER TO SHEET C202 FOR DETAILS REFERENCED.
8. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

KEYNOTE LEGEND

1. CONCRETE SIDEWALK
2. CHAIRBACK CURB AND GUTTER
3. CURB END TRANSITION
4. TRANSITION NEW CURB TO EXISTING CURB
5. DETECTABLE WARNING ADA RAMP. SEE SITE DETAILS
6. PAVEMENT MARKINGS
7. CONCRETE PARKING BUMPER
8. LIGHT POLE AND FOUNDATION (REFER TO ELECTRICAL PLANS)
9. RESET ADA PARKING SIGNAGE
10. CONCRETE PAD. SEE ARCHITECTURAL PLANS
11. ALTERNATE CONCRETE WALK LIMITS AS SHOWN ON PLAN AND BASE
12. ALTERNATE GRILLING AREA. SEE ARCHITECTURAL PLANS
13. ALTERNATE PERGOLA. SEE ARCHITECTURAL PLANS
14. CONCRETE SIDEWALK SHALL BE EXTENDED TO PARK PAVILION IF ALTERNATIVE KEYNOTE 12 IS NOT SELECTED.

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SITE PLAN

HAMILTON COUNTY PARKS

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CERTIFIED BY:

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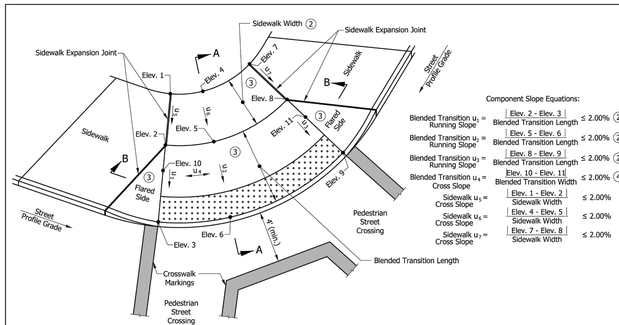
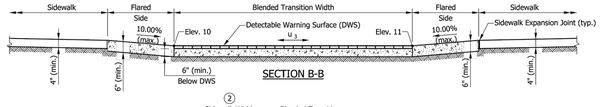
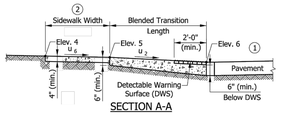


Component Slope Equations:

Blended Transition u_1 = Running Slope	Elev. 2 - Elev. 3 / Blended Transition Length	≤ 2.00% (2)
Blended Transition u_3 = Running Slope	Elev. 5 - Elev. 6 / Blended Transition Length	≤ 2.00% (2)
Blended Transition u_5 = Running Slope	Elev. 8 - Elev. 9 / Blended Transition Length	≤ 2.00% (2)
Blended Transition u_4 = Cross Slope	Elev. 10 - Elev. 11 / Blended Transition Width	≤ 2.00% (4)
Sidewalk u_6 = Cross Slope	Elev. 1 - Elev. 2 / Sidewalk Width	≤ 2.00%
Sidewalk u_8 = Cross Slope	Elev. 4 - Elev. 5 / Sidewalk Width	≤ 2.00%
Sidewalk u_7 = Cross Slope	Elev. 7 - Elev. 8 / Sidewalk Width	≤ 2.00%



SECTION B-B



SECTION A-A

NOTES:

1. The bottom edge of the blended transition and top of curb shall be flush with the edge of adjacent pavement and gutter line.
2. Where the running slope is less than or equal to 2.00% a 4-ft minimum sidewalk is not required, behind the blended transition. Where the running slope is greater than 2.00%, a 4-ft minimum sidewalk shall continue behind the blended transition and the running slope shall not exceed 5.00%.
3. Curb ramp surface shall be coarse broomed transverse to the running slope.
4. See Standard Drawing E 604-SWCR-01 for cross slope exceptions.
5. See Standard Drawing E 604-SWCR-12, -13, and -14 for Detectable Warning Surface placement, configuration, and details.
6. See Standard Drawing E 604-CCSJ-01 for sidewalk expansion joint details.

LEGEND:

- Ramp
- Detectable Warning Surface

INDIANA DEPARTMENT OF TRANSPORTATION

BLENDED TRANSITION CURB RAMP COMPONENT DETAILS

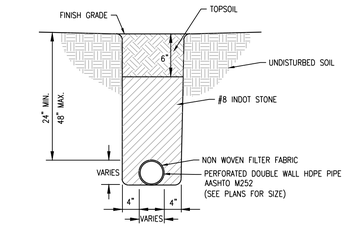
SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-10

ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER

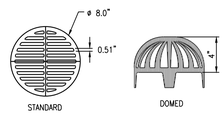
/s/ Elizabeth W. Phillips 03/29/18
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/25/18
CHIEF ENGINEER DATE



PERFORATED UNDERDRAIN (SSD) FIELD INSTALLATION

NOT TO SCALE



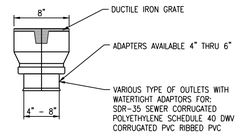
DRAIN AREA = 20.3 SQ. INCH

CASTINGS ARE RATED FOR LIGHT WHEEL LOAD TRAFFIC

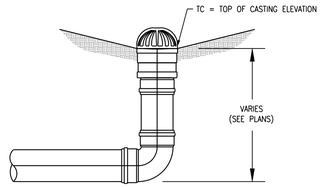
QUALITY: MATERIAL SHALL CONFORM TO ASTM A48 – CLASS 30B

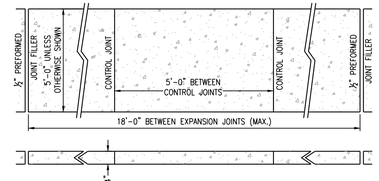
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT

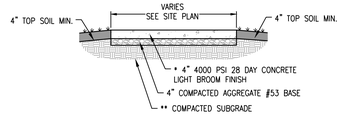
8" DUCTILE IRON GRATE



8" INLINE DRAIN





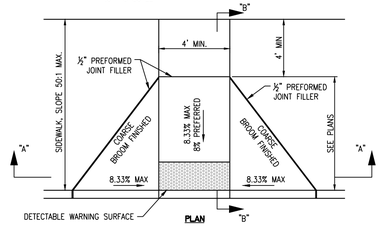


* MINIMUM THICKNESS
WHERE SIDEWALKS CROSS DRIVEWAYS, MINIMUM THICKNESS SHALL BE AS FOLLOWS:
RESIDENTIAL: 6" FOR SIDEWALK, 6" FOR COMPACTED AGGREGATE #53 BASE
COMMERCIAL/INDUSTRIAL: 8" FOR SIDEWALK, 8" FOR COMPACTED AGGREGATE #53 BASE.

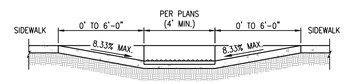
** COMPACTED SUBGRADE
THE UPPER 6" SHALL COMPLY WITH THE DENSITY REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS IMMEDIATELY PRIOR TO PLACING THE MATERIAL THEREON. ALL SOFT, YIELDING OR OTHER UNSUITABLE MATERIAL, WHICH CANNOT BE COMPACTED SATISFACTORILY, SHALL BE REMOVED. ALL ROCK ENCOUNTERED SHALL BE REMOVED OR BROKEN OFF AT LEAST 6" BELOW THE SUBGRADE SURFACE. ANY HOLES OR DEPRESSIONS RESULTING FROM THE REMOVAL OF UNSUITABLE MATERIAL SHALL BE FILLED WITH SATISFACTORY MATERIAL AND COMPACTED TO CONFORM WITH THE SURROUNDING SUBGRADE SURFACE.

CONCRETE SIDEWALK

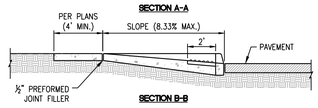
NOT TO SCALE



PLAN



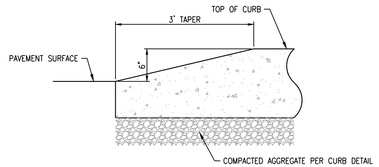
SECTION A-A



SECTION B-B

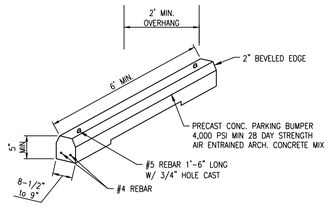
ACCESSIBLE RAMP WITH CONCRETE FLARES

NOT TO SCALE



CURB END TRANSITION

NOT TO SCALE



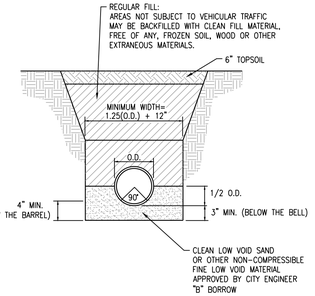
CONCRETE PARKING BUMPER

NOT TO SCALE

NYLOPLAST 8" YARD DRAIN

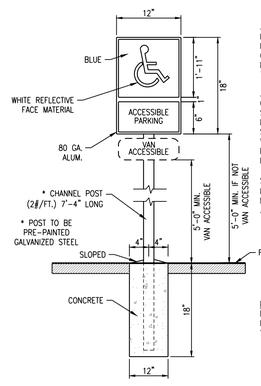
NOT TO SCALE

DETAILS PROVIDED BY:
NYLOPLAST AMERICA, INC.
3130 VERONA AVENUE
BUFORD, GEORGIA 30518



RIGID PIPE BEDDING DETAIL (STORM) GREATER THAN 5' FROM EDGE OF PAVEMENT

NOT TO SCALE CONCRETE PIPE AND CMP



ACCESSIBLE PARKING SPACES SHALL BE IDENTIFIED BY A SIGN SHOWING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH ANSI 4.28.8. SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.

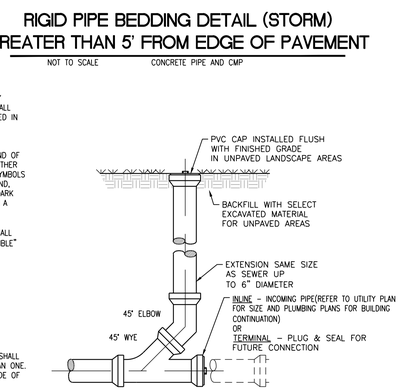
ANSI 4.28.5 FINISH AND CONTRAST THE CHARACTERS, SYMBOLS, AND BACKGROUND OF SIGN SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

SPACES COMPLYING WITH 4.1.2(5)(B) SHALL HAVE AN ADDITIONAL SIGN "VAN-ACCESSIBLE" MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY.

NOTE: ONE IN SIX ACCESSIBLE SPACES SHALL BE VAN ACCESSIBLE, BUT NOT LESS THAN ONE. PLACE ACCESS AISLE ON PASSENGER SIDE OF VAN ACCESSIBLE SPACE.

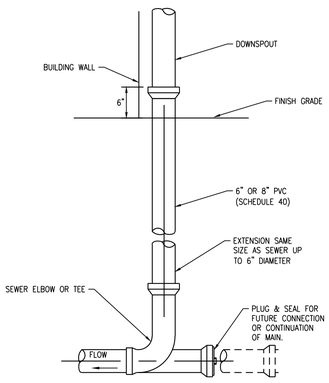
ACCESSIBLE PARKING SIGN

NOT TO SCALE



STORM SEWER CLEANOUT IN LANDSCAPE AREAS

NOT TO SCALE



DOWNSPOUT DRAIN (PVC)

NOT TO SCALE

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SITE AND UTILITY DETAILS
HAMILTON COUNTY PARKS
CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL IN 46032

CERTIFIED BY:

JOHN C. ZANT REGISTERED PE 19900434 STATE OF INDIANA PROFESSIONAL ENGINEER

Drawn By: SDS
Checked By: JCZ
Quality Assurance: DJP
Scale: 1" = 20'
Sheet: C202
Date: 2020/04/21
Project Number: 990433-10705

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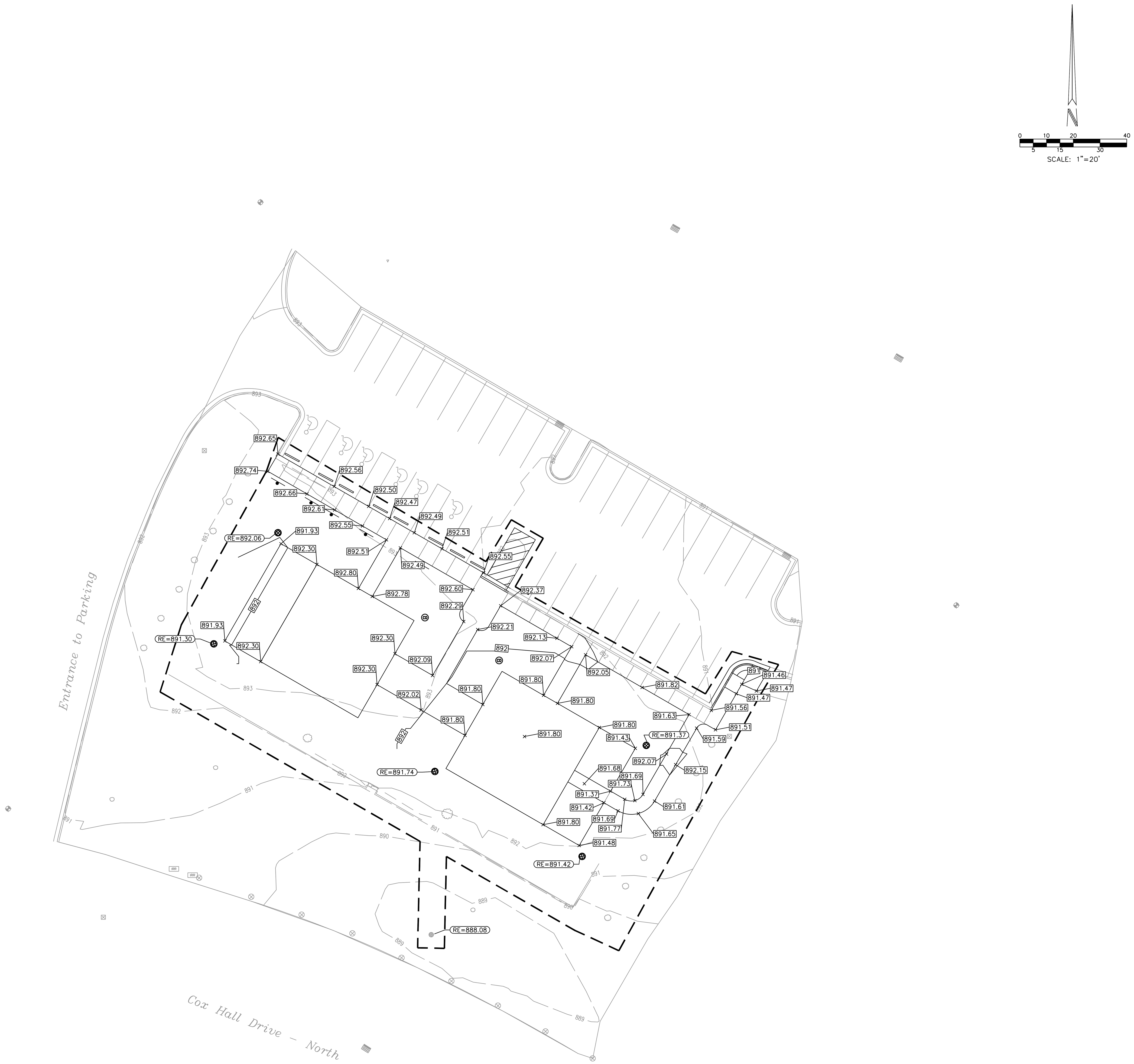

GRADING PLAN LEGEND

Symbol	Description	Symbol	Description
801	PROPOSED 1' CONTOUR	800.00	PROPOSED GRADE
800	PROPOSED 5' CONTOUR	MEG	MATCH EXISTING GRADE
SWALE @ 1.0%	PROPOSED SWALE	TC 800.50 / EP 800.00	PROPOSED TOP OF CURB / PROPOSED EDGE OF PAVEMENT
SWALE @ 1.0%	PROPOSED SWALE WITH SUB-SURFACE DRAIN	TW 800.50 / BW 800.00	PROPOSED TOP OF WALL / PROPOSED BOTTOM OF WALL
	GRADE BREAK LINE	FFE=800.00	FINISHED FLOOR ELEVATION
	FLOOD ROUTE PATH	RE=800.00	RIM ELEVATION
	DRAINAGE FLOW ARROW		

GRADING PLAN NOTES

1. UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR IS TO DETERMINE AND FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. **TOPOGRAPHIC AND PLANIMETRIC INFORMATION FROM PHOTOGRAPHIC COMPILATION HAS BEEN PROVIDED BY OTHERS. THE ACCURACY HAS NOT BEEN CONFIRMED BY CRIPE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD.**
3. ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
4. RIM ELEVATION (RE) SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER THE GRATE FOR ALL CASTINGS. IF CASTING HAS SOLID LID, THE RE IS THE LID ELEVATION.
5. BUILDING PAD AREAS AND PAVED AREAS DESIGNATED FOR FILL SHALL BE CONSTRUCTED OF SUITABLE FILL MATERIAL AND COMPACTED PER SPECIFICATIONS. ALL FILL AREAS SHALL BE STRIPPED OF TOPSOIL PRIOR TO PLACEMENT OF FILL.
6. ANY EXCESS SOIL MATERIAL SHALL BE EXPORTED FROM THE SITE AFTER CONSTRUCTION IS COMPLETED.
7. **TOPSOIL SHALL BE PLACED IN LAWN, LANDSCAPE, MOUNDING AND NONSTRUCTURAL FILL AREAS. UPON COMPLETION OF MASS EARTHWORK, TOPSOIL SHALL BE SPREAD TO A DEPTH OF FOUR TO SIX (4 TO 6) INCHES IN AREAS LISTED ABOVE. TOPSOIL SHALL NOT BE UTILIZED AS STRUCTURAL FILL IN PAVED AREAS.**
8. CONTRACTOR SHALL PRESERVE EXISTING TREES WHEREVER POSSIBLE. CLEARING LIMITS SHALL CONSIST OF ALL TREES WITHIN PAVED AREAS, UTILITY INSTALLATION LIMITS, AND CUT/FILL AREAS.
9. **A GEOTECHNICAL REPORT HAS BEEN PROVIDED FOR THIS PROJECT FOR REFERENCE. CONTRACTOR TO REVIEW PRIOR TO START OF CONSTRUCTION.**

OR

10. **A GEOTECHNICAL REPORT HAS NOT BEEN PROVIDED FOR THIS PROJECT. CONTRACTOR TO PERFORM A SITE VISIT PRIOR TO PROJECT BID. THE ENGINEER HAS BASED RECOMMENDATIONS UPON NRCS MAPS AND GENERAL KNOWLEDGE OF SOILS CONDITIONS IN THE AREA.**
11. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

FLOODPLAIN NOTES

1. **THE SITE IS LOCATED WITHIN THE FLOOD HAZARD ZONE "AE" and "X" PER THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 18097C0159E, REVISED JANUARY 5, 2001.**
2. **THE 100 YEAR BASE FLOOD ELEVATION FOR THE SITE AS ILLUSTRATED ON THE FLOOD INSURANCE STUDY (FIS) PLATE NUMBER 30P FOR MARION COUNTY, INDIANA FOR FALCON CREEK XXX.X± ROUNDED UP TO THE NEAREST 0.5'.**

GRADES REPRESENTED ALONG PARKING LOT SIDEWALK EDGE ARE SET ½" ABOVE EXISTING PAVEMTN OR EXISTING CURBING.

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GRADING PLAN

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL

2000 W. 116TH STREET, CARMEL, IN 46032

CERTIFIED BY:

JOHN C. ZANT REGISTERED PE 19900434 STATE OF INDIANA PROFESSIONAL ENGINEER

Drawn By:	SDS
Checked By:	JCZ
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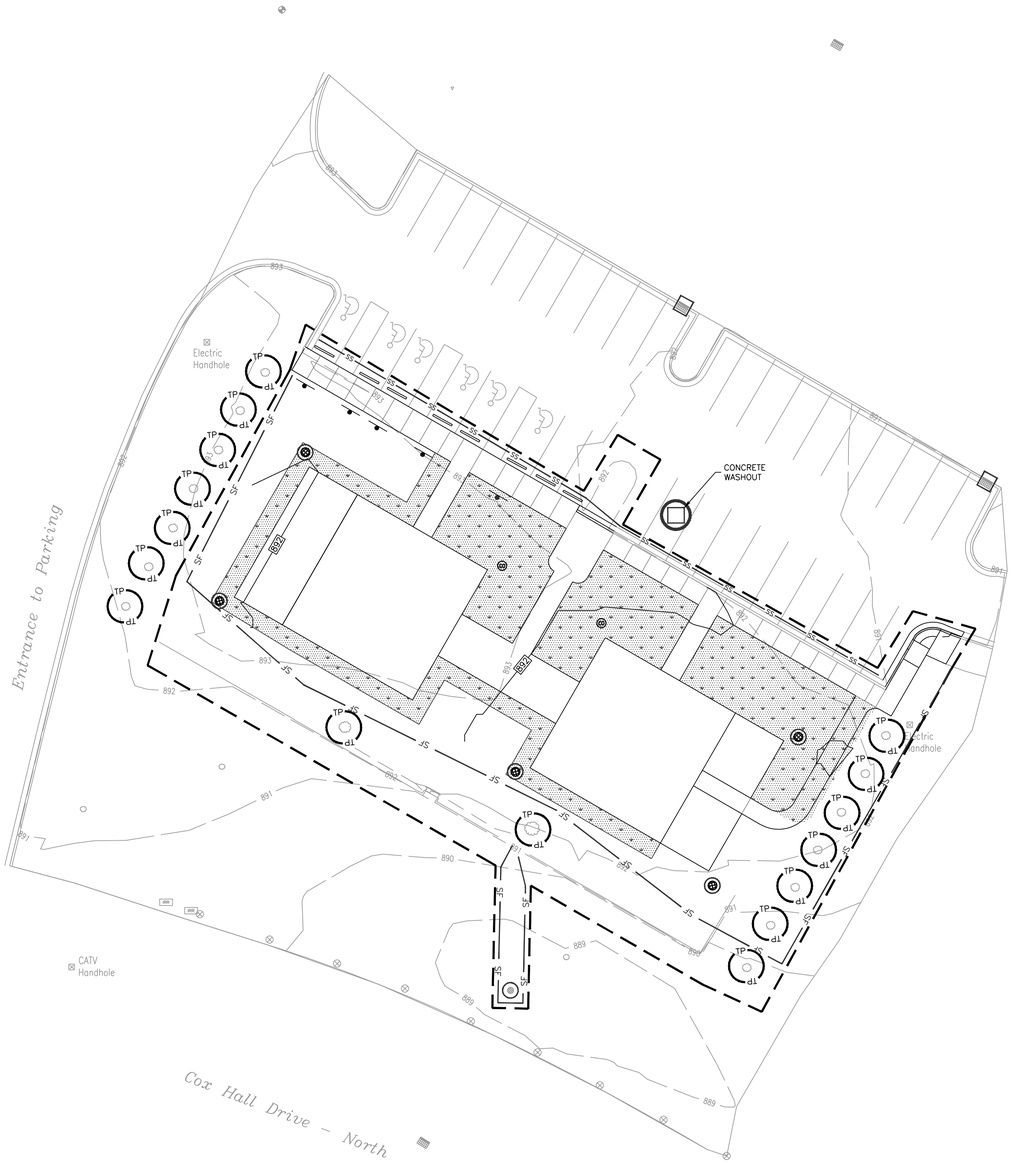

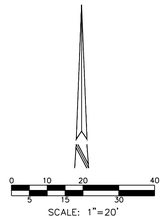

STORMWATER POLLUTION PREVENTION PLAN LEGEND

- TP TP — TREE PRESERVATION FENCING
- SF — SILT FENCE BARRIER INSTALLATION
- SS SS — SILT SOCK
- CONSTRUCTION LIMITS
- TEMPORARY SEEDING
- GEOTEXTILE FABRIC YARD DROP INLET PROTECTION
- INSERT (BAG) CURB INLET PROTECTION WITH CURB FILTER
- CONCRETE WASHOUT

STORMWATER POLLUTION PREVENTION PLAN NOTES

1. REFER TO SHEET **C40X** FOR SOILS MAP AND SOIL CHARACTERISTICS.
2. REFER TO SHEET **C40X** FOR STORMWATER POLLUTION PREVENTION PLAN DETAILS.
3. REFER TO LANDSCAPE PLANS FOR PLANTING DETAILS. ANY MOUNDING NOTED ON LANDSCAPE PLANS SHALL NOT CHANGE THE DRAINAGE PATTERN NOTED IN THE GRADING PLAN SERIES 300'S.
4. SILT FENCE BARRIER TO BE INSTALLED PRIOR TO CONSTRUCTION.
5. EROSION CONTROL MEASURES TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.
6. REFER TO THE STORMWATER POLLUTION PREVENTIONS NOTES SHEET **CX0X** FOR ALL EROSION CONTROL MEASURES, SCHEDULES, AND SEQUENCES.
7. CONTRACTOR TO PROVIDE A STABLE TEMPORARY GRAVEL CONSTRUCTION INGRESS/EGRESS CONDITION FROM THE CONSTRUCTION SITE TO KEEP MUD AND SEDIMENT OFF PUBLIC ROADS.
8. EROSION CONTROL MAINTENANCE – SITE TO BE INSPECTED AT LEAST ONCE A WEEK AND MAKE REPAIRS IMMEDIATELY AFTER PERIODS OF 1/2" RAINFALL OR GREATER.
9. **STORMWATER DISCHARGE WILL OR WILL NOT ENTER THE GROUNDWATER FOR THIS PROJECT.**
10. **THE 100 YEAR FLOODPLAIN FLOODWAYS ARE PRESENT AND LABELED ON THIS SITE OR NOT PRESENT.**
11. **PRESENCE OF HYDRIC SOILS: LIST TYPE.**
12. CONTRACTOR SHALL PROVIDE **THE DEPARTMENT OF BUSINESS & NEIGHBORHOOD SERVICES OF THE CITY OF INDIANAPOLIS** WITH A NARRATIVE DESCRIBING THE CONSTRUCTION SEQUENCE, INCLUDING START DATES FOR EACH LAND DISTURBING ACTIVITY.
13. THE ACTUAL PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL SHALL BE DETERMINED DURING THE BIDDING PROCESS. THE AWARD WINNING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. ONCE DETERMINED, CONTRACTOR SHALL COORDINATE WITH THE CITY.
14. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

STORMWATER POLLUTION PREVENTION PLAN SEQUENCE AND IMPLEMENTATION

1. INSTALL SILT FENCING. DUST SHALL BE KEPT TO A MINIMUM BY UTILIZING SPRINKLING WATER OR OTHER APPROVED METHODS.
2. IDENTIFY CONSTRUCTION STAGING AREA, CONCRETE WASHOUT AREAS, MATERIAL STORAGE AND TOPSOIL STOCKPILE AREAS. EACH AREA SHALL BE PROPERLY PROTECTED AND DELINEATED PRIOR TO CONSTRUCTION.
3. THE IDEM NOI, IF REQUIRED, AND CONTACT INFORMATION FOR THE PERSON WITH ONSITE RESPONSIBILITIES MUST BE POSTED ONSITE.
4. **IDEM AND THE LOCAL CITY AGENCY MUST BE NOTIFIED WITHIN 48 HOURS OF COMMENCING CONSTRUCTION.**
5. CONTACT INDIANA UNDERGROUND PLANNED PROTECTION SYSTEMS, INC. ("INDIANA 811") FOR UNDERGROUND UTILITY LOCATIONS. (1-800-382-5544).
6. BEFORE OPENING UP THE SITE, FIRST EVALUATE, MARK AND PROTECT IMPORTANT TREES AND ASSOCIATED ROOT ZONES, UNIQUE AREAS TO BE PRESERVED (I.E. WETLANDS), STREAMS, LAKES OR EXISTING VEGETATION SUITABLE FOR USE AS FILTER STRIPS (ESPECIALLY IN PERIMETER AREAS).
7. FIRST, STRIP AND STOCKPILE TOPSOIL ON-SITE.
8. BEGIN MASS EARTHWORK FOR PROPOSED IMPROVEMENTS.
9. REPAIR ANY SILT FENCING IF DAMAGED. IF SILT IS 1/3 HEIGHT OF FABRIC, REMOVE SILT AND REPLACE TO ORIGINAL CONDITION.
10. IMMEDIATELY AFTER GRADING, APPLY SURFACE STABILIZATION PRACTICES ON ALL GRADED AREAS, USING PERMANENT MEASURES IN ACCORDANCE WITH THE EROSION CONTROL PLAN. HOWEVER, IF WEATHER DELAYS PERMANENT STABILIZATION, TEMPORARY SEEDING AND/OR MULCHING MAY BE NECESSARY AS A PROVISIONAL MEASURE. ALSO STABILIZE (USING TEMPORARY SEEDING/MULCHING OR OTHER SUITABLE MEANS) ANY DISTURBED AREA WHERE ACTIVE CONSTRUCTION WILL NOT TAKE PLACE FOR 15 WORKING DAYS.
11. AFTER CONSTRUCTION AND FINAL GRADING, PERMANENTLY STABILIZE ALL DISTURBED AREAS. ALSO REMOVE TEMPORARY RUNOFF CONTROL STRUCTURES, ANY UNSTABLE SEDIMENT AROUND THEM, AND STABILIZE THOSE AREAS WITH PERMANENT SEEDING AND EROSION CONTROL BLANKET IF NECESSARY.
12. MAINTAIN ALL EROSION AND SEDIMENT CONTROL PRACTICES UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.

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STORMWATER POLLUTION PREVENTION PLAN
HAMILTON COUNTY PARKS
CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

CERTIFIED BY:

JOHN C. ZANT
REGISTERED
PE 19900434
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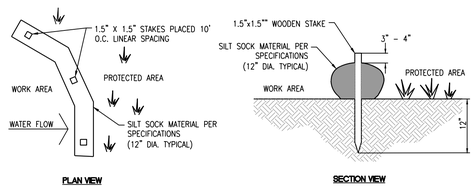


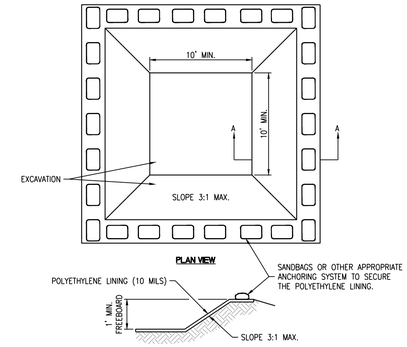
PLAN VIEW

SECTION VIEW

NOTES:
1. ALL MATERIAL TO MEET SPECIFICATIONS.
2. COMPOST SOCKS FILL MEET APPLICATION REQUIREMENTS.
3. FILTER MEDIA MAY BE DISPERSED ON SITE, AT THE END OF CONSTRUCTION, AS ALLOWED BY OWNER.

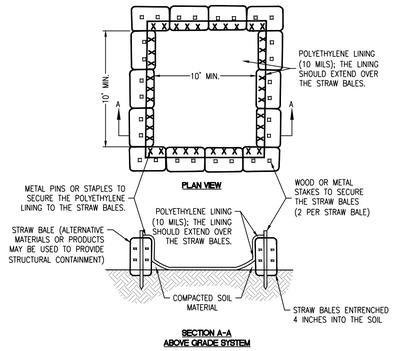
SILT SOCK

NOT TO SCALE



PLAN VIEW

SECTION A-A
BELOW GRADE SYSTEM



PLAN VIEW

SECTION A-A
ABOVE GRADE SYSTEM

INSTALLATION

PREFABRICATED WASHOUT SYSTEMS/CONTAINERS

- INSTALL AND LOCATE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

DESIGNED AND INSTALLED SYSTEMS

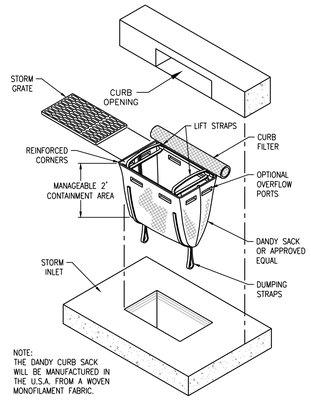
- UTILIZE AND FOLLOW THE DESIGN IN THE STORM WATER POLLUTION PREVENTION PLAN TO INSTALL THE SYSTEM.
- DEPENDENT UPON THE TYPE OF SYSTEM, EITHER EXCAVATE THE PIT OR INSTALL THE CONTAINMENT SYSTEM.
- A BASE SHALL BE CONSTRUCTED AND PREPARED THAT IS FREE OF ROCKS AND OTHER DEBRIS THAT MAY CAUSE TEARS OR PUNCTURES IN THE POLYETHYLENE LINING.
- INSTALL THE POLYETHYLENE LINING. FOR EXCAVATED SYSTEMS, THE LINING SHOULD EXTEND OVER THE ENTIRE EXCAVATION. THE LINING FOR BERMED SYSTEMS SHOULD BE INSTALLED OVER THE POOLING AREA WITH ENOUGH MATERIAL TO EXTEND THE LINING OVER THE BERM OR CONTAINMENT SYSTEM. THE LINING SHOULD BE SECURED WITH PINS, STAPLES, OR OTHER FASTENERS.
- PLACE FLAGS, SAFETY FENCING, OR EQUIVALENT TO PROVIDE A BARRIER TO CONSTRUCTION EQUIPMENT AND OTHER TRAFFIC.
- PLACE A NON-COLLAPSING, NON-WATER HOLDING COVER OVER THE WASHOUT FACILITY PRIOR TO A PREDICTED RAINFALL EVENT TO PREVENT ACCUMULATION OF WATER AND POSSIBLE OVERFLOW OF THE SYSTEM (OPTIONAL).
- INSTALL SIGNAGE THAT IDENTIFIES CONCRETE WASHOUT AREAS.
- POST SIGNS DIRECTING CONTRACTORS AND SUPPLIERS TO DESIGNATED LOCATIONS.
- WHERE NECESSARY, PROVIDE STABLE INGRESS AND EGRESS OR ALTERNATIVE APPROACH PAD FOR CONCRETE WASHOUT SYSTEMS.

MAINTENANCE

- INSPECT DAILY AND AFTER EACH STORM EVENT.
- INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE INCLUDING, WHERE APPLICABLE, THE CONTAINMENT SYSTEM.
- INSPECT THE SYSTEM FOR LEAKS, SPILLS, AND TRACKING OF SOIL BY EQUIPMENT.
- INSPECT THE POLYETHYLENE LINING FOR FAILURE, INCLUDING TEARS AND PUNCTURES.
- ONCE CONCRETE WASTES HARDEN, REMOVE AND DISPOSE OF THE MATERIAL.
- EXCESS CONCRETE SHOULD BE REMOVED WHEN THE WASHOUT SYSTEM REACHES 50 PERCENT OF THE DESIGN CAPACITY. USE OF THE SYSTEM SHOULD BE DISCONTINUED UNTIL APPROPRIATE MEASURES CAN BE INITIATED TO CLEAN THE STRUCTURE PREFABRICATED SYSTEMS SHOULD ALSO UTILIZE THIS CRITERION, UNLESS THE MANUFACTURER HAS ALTERNATE SPECIFICATIONS.
- UPON REMOVAL OF THE SOLIDS, INSPECT THE STRUCTURE. REPAIR THE STRUCTURE AS NEEDED OR CONSTRUCT A NEW SYSTEM.
- DISPOSE OF ALL CONCRETE IN A LEGAL MANNER. REUSE THE MATERIAL ON SITE, RECYCLE, OR HAUL THE MATERIAL TO AN APPROVED CONSTRUCTION/DEMOLITION LANDFILL SITE. RECYCLING OF MATERIAL IS ENCOURAGED. THE WASTE MATERIAL CAN BE USED FOR MULTIPLE APPLICATIONS INCLUDING BUT NOT LIMITED TO ROADBEDS AND BUILDING. THE AVAILABILITY FOR RECYCLING SHOULD BE CHECKED LOCALLY.
- THE PLASTIC LINER SHOULD BE REPLACED AFTER EVERY CLEANING; THE REMOVAL OF MATERIAL WILL USUALLY DAMAGE THE LINING.
- THE CONCRETE WASHOUT SYSTEM SHOULD BE REPAIRED OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE.
- CONCRETE WASHOUT SYSTEMS ARE DESIGNED TO PROMOTE EVAPORATION. HOWEVER, IF THE LIQUIDS DO NOT EVAPORATE AND THE SYSTEM IS NEAR CAPACITY IT MAY BE NECESSARY TO VACUUM OR REMOVE THE LIQUIDS AND DISPOSE OF THEM IN AN ACCEPTABLE METHOD. DISPOSAL MAY BE ALLOWED AT THE LOCAL SANITARY SEWER AUTHORITY PROVIDED THEIR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS ALLOW FOR ACCEPTANCE OF THIS MATERIAL. ANOTHER OPTION WOULD BE TO UTILIZE A SECONDARY CONTAINMENT SYSTEM OR BASIN FOR FURTHER DEWATERING.
- PREFABRICATED UNITS ARE OFTEN PUMPED AND THE COMPANY SUPPLYING THE UNIT PROVIDES THIS SERVICE.
- INSPECT CONSTRUCTION ACTIVITIES ON A REGULAR BASIS TO ENSURE SUPPLIERS, CONTRACTORS, AND OTHERS ARE UTILIZING DESIGNATED WASHOUT AREAS. IF CONCRETE WASTE IS BEING DISPOSED OF IMPROPERLY, IDENTIFY THE VIOLATORS AND TAKE APPROPRIATE ACTION.
- WHEN CONCRETE WASHOUT SYSTEMS ARE NO LONGER REQUIRED, THE CONCRETE WASHOUT SYSTEMS SHALL BE CLOSED. DISPOSE OF ALL HARDENED CONCRETE AND OTHER MATERIALS USED TO CONSTRUCT THE SYSTEM.
- HOLES, DEPRESSIONS AND OTHER LAND DISTURBANCES ASSOCIATED WITH THE SYSTEM SHOULD BE BACKFILLED, GRADED, AND STABILIZED.

CONCRETE WASHOUT

NOT TO SCALE



NOTE:
THE DANDY CURB SACK WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC.

INSTALLATION

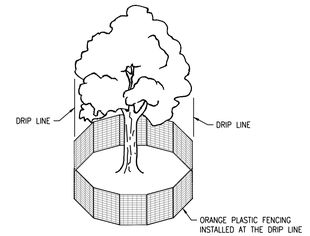
1. REMOVE THE GRATE FROM THE CATCH BASIN.
2. IF USING OPTION OIL ABSORBENTS, PLACE ABSORBENT PILLOW IN UNIT.
3. STAND THE GRATE ON END, MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY SACK SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS.
4. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.
5. MAKE SURE THE CYLINDRICAL PORTION IS UP AGAINST THE CURB OPENING TO PREVENT SILT AND DEBRIS FROM ENTERING THE INLET.

MAINTENANCE

- INSPECT DAILY.
- REMOVE ALL ACCUMULATED SEDIMENT AFTER EACH STORM EVENT. DISPOSE OF SEDIMENT IN AN AREA WHERE IT WILL NOT REENTER THE PAVED AREA OR STORM DRAINS. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET BY USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS, REPLACE ABSORBENT WHEN NEAR SATURATION. CONTACT: 708-867-8446
- WHEN CONTRIBUTING DRAINAGE AREA HAD BEEN STABILIZED, REMOVE INLET PROTECTION.

INSERT (BAG) CURB INLET PROTECTION WITH CURB FILTER

NOT TO SCALE

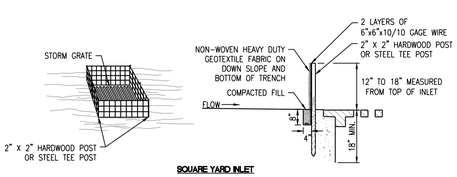


MAINTENANCE

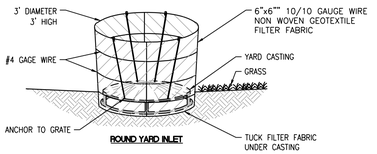
- INSPECT AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- REPAIR PERIMETER BARRIERS IF DAMAGED.
- INSPECT FOR DAMAGE FROM CONSTRUCTION EQUIPMENT, ETC. REPAIR WOUNDS SIMPLY BY REMOVING DAMAGED BARK AND WOOD TISSUE. DO NOT USE TREE PAINT.
- CABLE AND BRACE ANY TRUNK SPLITS, WEAK FORKS, AND LARGE LIMBS.

TREE PRESERVATION FENCING (SINGLE)

NOT TO SCALE



SQUARE YARD INLET



ROUND YARD INLET

INSTALLATION

1. DIG AN EIGHT-INCH DEEP, FOUR-INCH WIDE TRENCH AROUND THE PERIMETER OF THE INLET.
2. IF USING PRE-ASSEMBLED GEOTEXTILE FABRIC AND POSTS, DRIVE THE POSTS INTO THE SOIL, TIGHTLY STRETCHING THE GEOTEXTILE FABRIC BETWEEN POSTS AS EACH IS DRIVEN. (POSTS MUST BE PLACED ON THE INLET SIDE OF THE ANCHOR TRENCH WITH THE GEOTEXTILE FABRIC ON THE SIDE OF THE TRENCH FARTHEST FROM THE INLET.)

   NOTE: IF ASSEMBLING THE GEOTEXTILE FABRIC AND POSTS ON-SITE, DRIVE THE POSTS INTO THE SOIL AND THEN SECURE THE GEOTEXTILE FABRIC TO THE POSTS BY PLACING A PIECE OF LATHE OVER THE FABRIC AND FASTENING IT TO THE POST (STRETCHING THE FABRIC BETWEEN POSTS AS IT IS FASTENED).

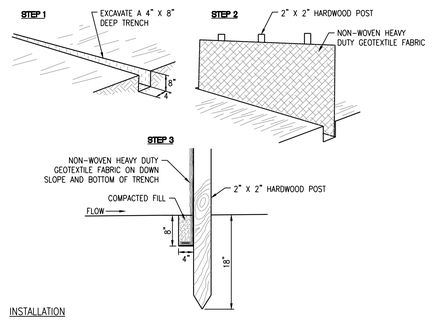
3. USE THE WRAP JOIN METHOD WHEN JOINING POSTS.
4. PLACE THE BOTTOM 12 INCHES OF GEOTEXTILE FABRIC INTO THE EIGHT-INCH DEEP TRENCH, LAYING THE REMAINING FOUR INCHES IN THE BOTTOM OF THE TRENCH AND EXTENDING AWAY FROM THE INLET.
5. BACKFILL THE TRENCH WITH SOIL MATERIAL AND COMPACT IT IN PLACE.
6. BRACE THE POSTS BY NAILING BRACES INTO EACH CORNER POST OR UTILIZE RIGID PANELS TO SUPPORT FABRIC.

MAINTENANCE

- INSPECT DAILY.
- INSPECT GEOTEXTILE FABRIC AND MAKE NEEDED REPAIRS IMMEDIATELY.
- REMOVE SEDIMENT FROM POOL AREA TO PROVIDE STORAGE FOR THE NEXT STORM EVENT. AVOID DAMAGING OR UNDERCUTTING FABRIC DURING SEDIMENT REMOVAL.
- WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE SEDIMENT, PROPERLY DISPOSE OF ALL CONSTRUCTION MATERIAL, GRADE AREA TO THE ELEVATION OF THE STORM DRAIN INLET TOP, THEN STABILIZE IMMEDIATELY.

GEOTEXTILE FABRIC YARD INLET DROP PROTECTION

NOT TO SCALE



INSTALLATION

1. LAY OUT THE LOCATION OF THE FENCE SO THAT IT IS PARALLEL TO THE CONTOUR OF THE SLOPE AND AT LEAST 10 FEET BEYOND THE TOE OF THE SLOPE TO PROVIDE A SEDIMENT STORAGE AREA. TURN THE ENDS OF THE FENCE UP SLOPE SUCH THAT THE POINT OF CONTACT BETWEEN THE GROUND AND THE BOTTOM OF THE FENCE END TERMINATES AT A HIGHER ELEVATION THAN THE TOP OF THE FENCE AT ITS LOWEST POINT.
2. EXCAVATE AN EIGHT-INCH DEEP BY FOUR-INCH WIDE TRENCH ALONG THE ENTIRE LENGTH OF THE FENCE LINE. INSTALLATION BY PLOWING IS ALSO ACCEPTABLE.
3. INSTALL THE SILT FENCE WITH THE FILTER FABRIC LOCATED ON THE UP-SLOPE SIDE OF THE EXCAVATED TRENCH AND THE SUPPORT POSTS ON THE DOWN-SLOPE SIDE OF THE TRENCH.
4. DRIVE THE SUPPORT POSTS AT LEAST 18 INCHES INTO THE GROUND, TIGHTLY STRETCHING THE FABRIC BETWEEN THE POSTS AS EACH IS DRIVEN INTO THE SOIL. A MINIMUM OF 12 INCHES OF THE FILTER FABRIC SHOULD EXTEND INTO THE TRENCH.
5. LAY THE LOWER FOUR INCHES OF FILTER FABRIC ON THE BOTTOM OF THE TRENCH AND EXTEND IT TOWARD THE UP-SLOPE SIDE OF THE TRENCH.
6. BACKFILL THE TRENCH WITH SOIL MATERIAL AND COMPACT IT IN PLACE.

   NOTE: IF THE SILT FENCE IS BEING CONSTRUCTED ON-SITE, ATTACH THE FILTER FABRIC TO THE SUPPORT POSTS AND ATTACH WOODEN LATHE TO SECURE THE FABRIC TO THE POSTS. ALLOW FOR AT LEAST 12 INCHES OF FABRIC BELOW GROUND LEVEL. COMPLETE THE SILT FENCE INSTALLATION, FOLLOWING STEPS 1 THROUGH 6 ABOVE.

MAINTENANCE

- INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY. NOTE; ALL REPAIRS SHOULD MEET SPECIFICATIONS AS OUTLINED WITHIN THIS MEASURE.
- REMOVE DEPOSITED SEDIMENT WHEN IT IS CAUSING THE FILTER FABRIC TO BULGE OR WHEN IT REACHES ONE-HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT. WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, GRADE THE SITE TO BLEND WITH THE SURROUNDING AREA, AND STABILIZE.

SILT FENCE BARRIER INSTALLATION

NOT TO SCALE

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STORMWATER POLLUTION PREVENTION DETAILS

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL IN 46032

CERTIFIED BY:

JOHN C. ZANT
REGISTERED
PE 19900434
STATE OF
INDIANA
PROFESSIONAL ENGINEER

Drawn By: SDS
Checked By: JCZ
Quality Assurance: DJP
Scale: 1" = 20'
Sheet: C402
Date: 2020/04/21
Project Number: 990433-10705

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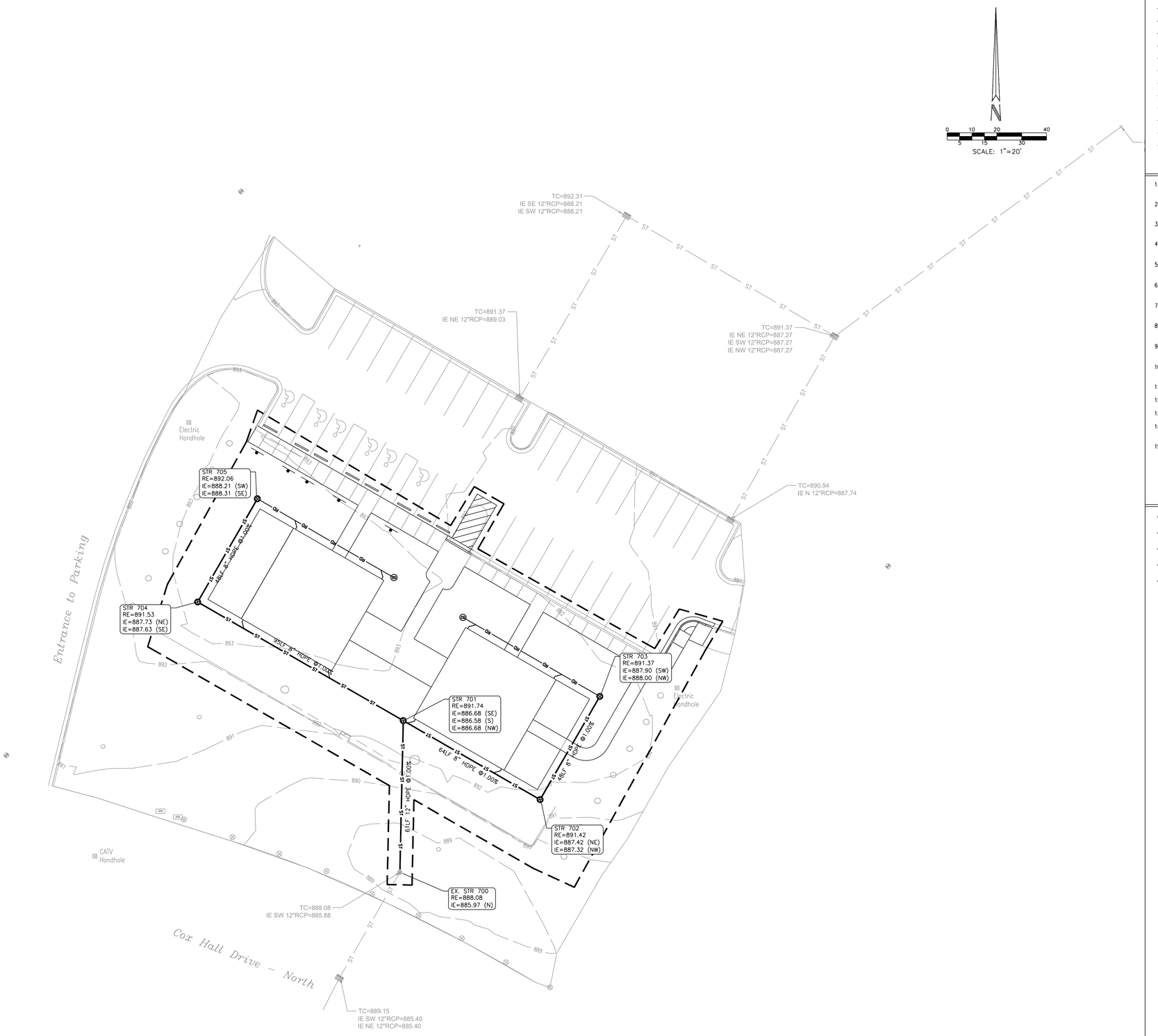

UTILITY PLAN LEGEND

STORM SEWER, MANHOLE	END SECTION
SUBSURFACE DRAIN (SSD)	CURB INLET
ROOF DRAIN, CLEANOUT	STORM SEWER INLETS
WATER LINE, METER, VALVE	"TEE" FITTING
SANITARY SEWER, MANHOLE	TAPPING SLEEVE & VALVE
SANITARY LATERAL, CLEAN OUT	FIRE HYDRANT
EASEMENT LINE	FIRE DEPARTMENT CONNECTION
OVERHEAD ELECTRIC, POLE	POST INDICATOR VALVE
BURIED ELECTRIC, MANHOLE	STREET LIGHT
OVERHEAD CABLE TELEVISION	TRANSFORMER
BURIED CABLE TELEVISION	ELECTRIC METER
GAS LINE, METER, VALVE	CABLE RISER PEDESTAL
OVERHEAD TELEPHONE LINE	
BURIED TELEPHONE LINE	

UTILITY PLAN NOTES:

1. SEE ARCHITECTURAL PLUMBING PLANS FOR PLUMBING DETAILS TO AREAS FIVE (5) FEET OUTSIDE AND INSIDE OF THE PROPOSED STRUCTURE.
2. SITE CONTRACTOR TO VERIFY ALL BUILDING LATERALS WITH PLUMBING DRAWINGS PRIOR TO CONSTRUCTION.
3. SITE UTILITY CONTRACTOR TO VERIFY BUILDING CONNECTION LOCATIONS AND ELEVATIONS WITH MEP AND ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
4. EXISTING UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE AND FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. RIM ELEVATION (RE) SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER THE GRATE FOR ALL CASTINGS. IF CASTING HAS SOLID LID, THE RE IS THE LID ELEVATION.
6. WATER AND SEWER CROSSINGS AND SEPARATIONS SHALL BE IN ACCORDANCE WITH "TEN STATE STANDARDS" AND LOCAL CODES.
7. WATER LINES THROUGHOUT THE PROJECT SHALL BE INSTALLED WITH AT LEAST 54 INCHES OF COVER TO PROVIDE PROTECTION FROM FREEZING.
8. PLASTIC WATER LINES SHALL BEAR THE NSF SEAL OF APPROVAL AND MEET COMMERCIAL STANDARD NO. 256-3, PRODUCT STANDARD 22-70, OR ASTM D 2441.
9. ALL SUB-SURFACE DRAIN (SSD) SHALL BE 6" PERFORATED DUAL WALL HDPE UNLESS NOTED OTHERWISE.
10. INVERT ELEVATION OF SUB-SURFACE DRAIN (SSD) AT STRUCTURE TO BE THREE (3) FEET BELOW RIM ELEVATION.
11. REFER TO SHEET C202 FOR STORM SEWER DETAILS.
12. REFER TO SHEET C202 FOR ALL OTHER UTILITY DETAILS.
13. SEE STRUCTURE DATA TABLE DETAIL ON SHEET C60X FOR STRUCTURE AND CASTING TYPE AND SIZE.
14. CONNECTIONS TO EXISTING STRUCTURES REQUIRE THAT THE STRUCTURE BE REHABILITATED TO CURRENT DPW DESIGN STANDARDS.
15. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

KEYNOTE LEGEND

1. COORDINATE WITH ELECTRICAL/TECHNOLOGY PLANS
2. CONTRACTOR TO REFER TO ELECTRICAL PLANS FOR SITE LIGHTING POLES, BASES, NUMBER OF CONDUITS AND WIRE SPECIFICATIONS, BUT REFER TO THIS SHEET FOR THE INSTALLED ROUTE
3. EXISTING STORM CASTING TO REMAIN IN PLACE AND BE UNDISTURBED DURING CONSTRUCTION
4. 5 LF OR 6" SUBSURFACE DRAIN @ 0.50% AND CAP END, WITH FILTER SOCK
5. CORE/DRILL EXISTING STRUCTURE

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UTILITY PLAN

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

CERTIFIED BY:

JOHN C. ZANT
REGISTERED
PE 19900434
STATE OF
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PROFESSIONAL ENGINEER

Drawn By:	SDS
Checked By:	JCZ
Quality Assurance:	DJP
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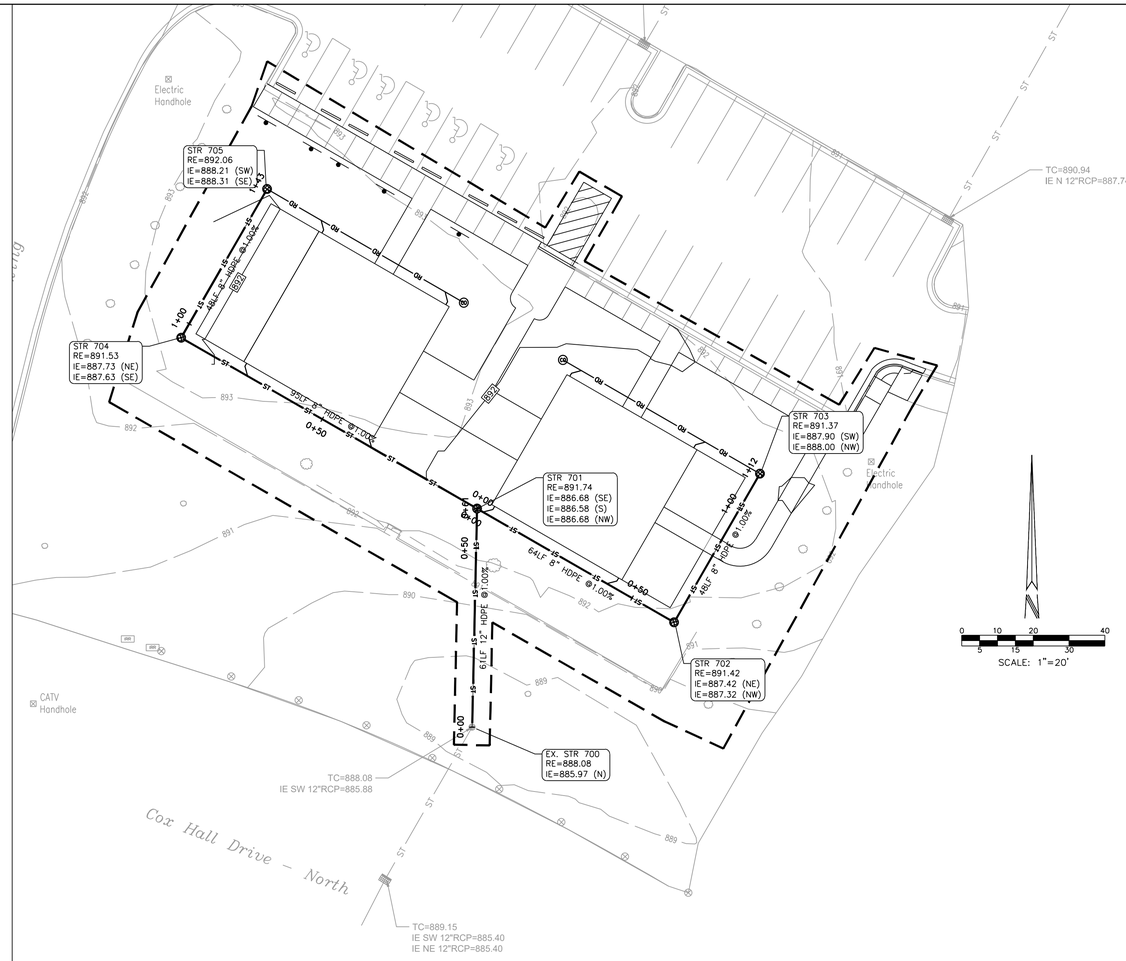
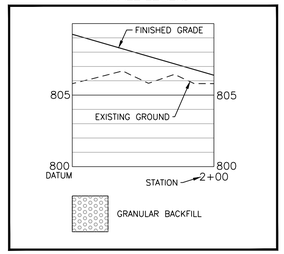
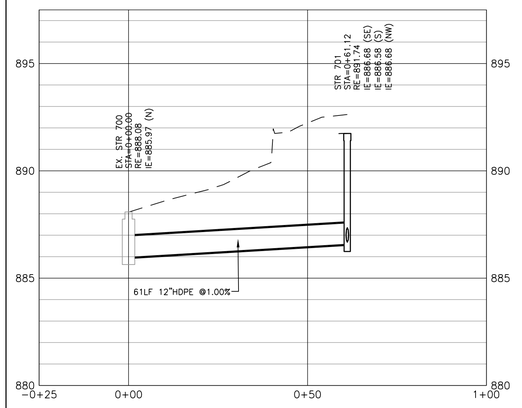


STORM SEWER PLAN AND PROFILE GENERAL NOTES

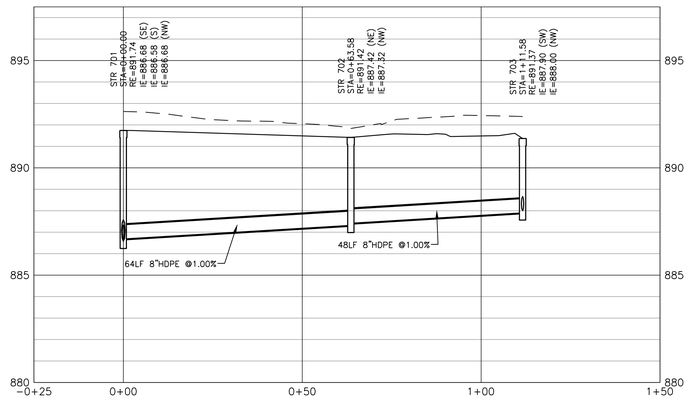
1. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
2. IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
3. ALL STRUCTURES SHALL HAVE CASTINGS, JOINTS, LIFT RINGS, STEPS AND PIPE CONNECTIONS WELL GROUTED, TROWELED SMOOTH AND BRUSH FINISHED.
4. ALL STRUCTURES (IE: MANHOLES, INLETS) SHALL HAVE POURED FLOW LINES AND BENCH WALLS. THE FLOW LINES AND BENCH WALLS SHALL BE TROWELED SMOOTH AND BRUSH FINISHED.
5. FIELD ADJUSTMENTS OF TOP OF CURB (TC) OF STRUCTURES MAY BE REQUIRED TO MEET FIELD CONDITIONS. ADJUSTMENTS EXCEEDING FIVE TENTHS (0.5) OF A FOOT MUST BE APPROVED BY THE ENGINEER TO DETERMINE THE INTEGRITY OF THE STRUCTURE, AT NO COST TO THE OWNER.
6. STORM STRUCTURES WITH INLET CASTINGS SHALL BE SET TO MAINTAIN A POSITIVE DRAINAGE FLOW INTO THE STRUCTURE.
7. STORM PIPE INVERTS AT OUTLET STRUCTURES (IE: END SECTIONS), AND PIPE LENGTHS MAY REQUIRE FIELD ADJUSTMENTS TO MEET ACTUAL FIELD CONDITIONS.
8. FULL DEPTH GRANULAR BACKFILL SHALL BE REQUIRED UNDER AND WITHIN (5) FEET OF ALL PAVED AREAS, INCLUDING CURBS, EDGE OF PAVEMENT, AND SIDEWALKS.
9. PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND INCLUDE END SECTIONS.
10. RIM ELEVATIONS (RE) SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER A STRUCTURE.
11. INVERT ELEVATION OF SUB-SURFACE DRAIN (SSD) AT STRUCTURE TO BE THREE (3) FEET BELOW RIM ELEVATION.
12. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
13. NO BLASTING SHALL BE PERFORMED ON THIS SITE.
14. NO SEISMIC VIBRATING OPERATIONS WILL OCCUR ON THIS SITE.
15. STRUCTURES DEEPER THAN 4' MUST BE ACCESSIBLE WITH STEPS.
16. DEBRIS GUARD TO BE INSTALLED ON ALL OPEN ENDED INLETS.
17. ALL STORM SEWER, INCLUDING SSD, SHALL BE CLEANED AND TELEVISED AFTER ALL UNDERGROUND UTILITIES ARE INSTALLED.
18. ALL BEEHIVE CASTINGS ON A 2'X2' BOX SHALL HAVE A SQUARE RISER WITH A ROUND HOLE.
19. WHERE CONNECTIONS ARE MADE TO EXISTING MANHOLES OR INLET STRUCTURES, THOSE STRUCTURES SHALL BE REHABILITATED OR REPLACED TO THOSE MINIMUM STANDARDS OUTLINED IN CHAPTERS 400 AND 500 OF THE CITY OF INDIANAPOLIS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. THE REHABILITATION SHALL INCLUDE THE INSTALLATION OF BENCH WALLS, AS WELL AS PRESCRIBED MEASURES TO ELIMINATE THE POTENTIAL FOR MIGRATION OF BACKFILL MATERIALS INTO THE STORMWATER SYSTEMS.

PROFILE LEGEND





PROFILE - EX. STR 700 - STR 701
HOR SCALE = 1"=20'
VERT. SCALE = 1"=3'



PROFILE - STR 701 - STR 703
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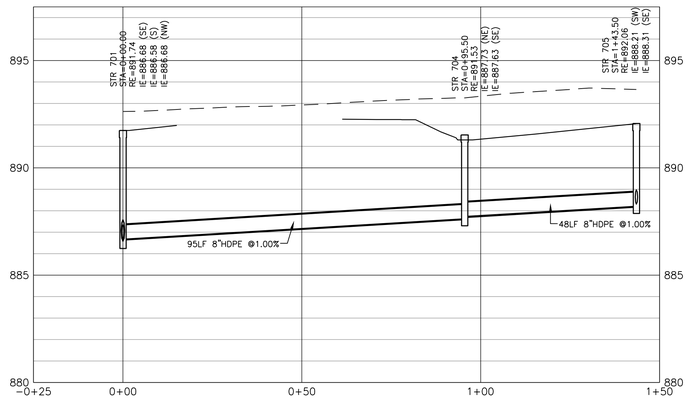

PROFILE - STR 701 - STR 705
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VERT. SCALE = 1"=3'

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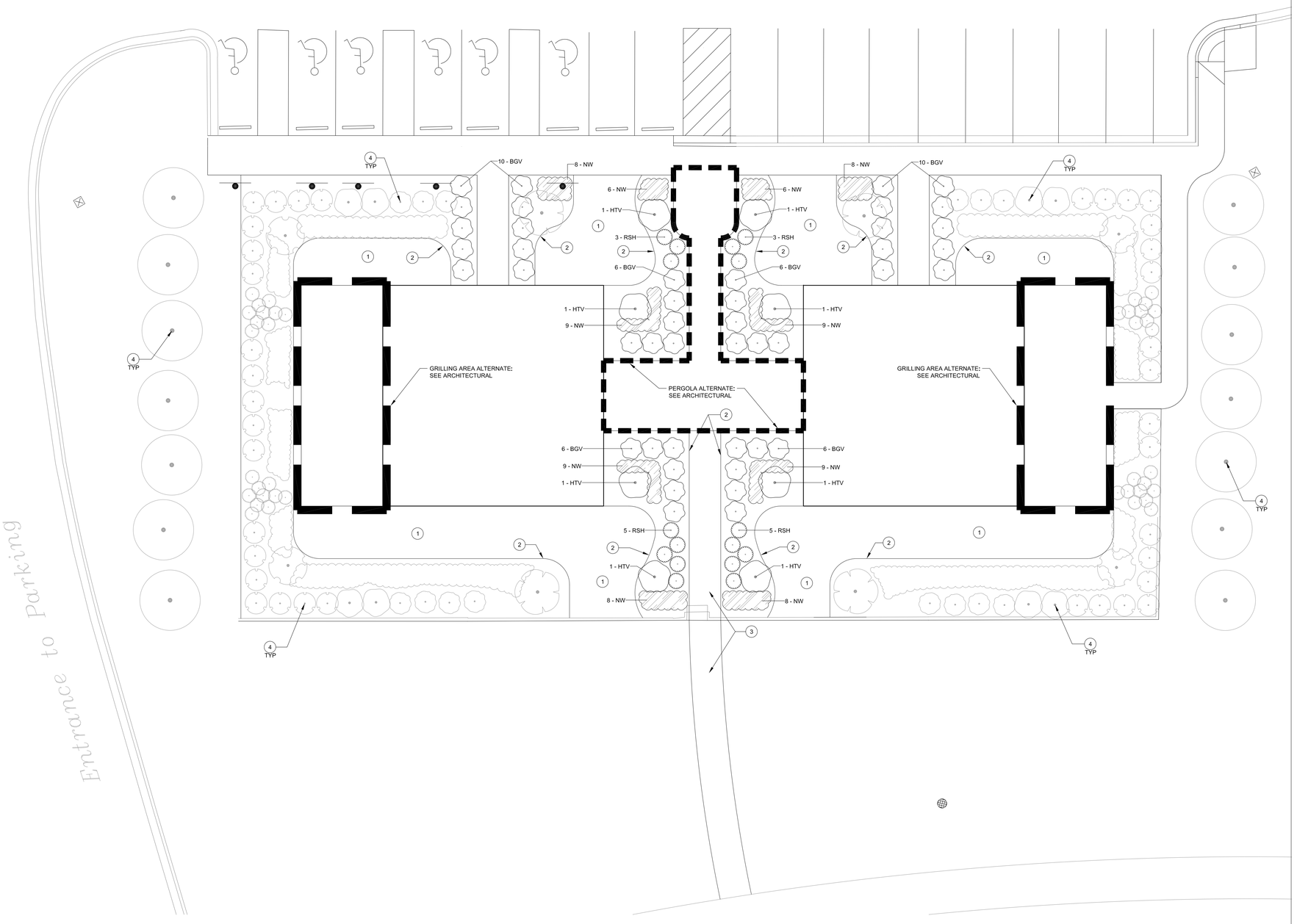

PLANT SCHEDULE

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
BGV	44	Buxus x `Green Velvet`	Green Velvet Boxwood	24" Ht	Cont/B&B
HTV	8	Hydrangea paniculata `Tardiva`	Tardiva Hydrangea	36" Ht.	Cont/B&B
RSH	16	Rosa shrub `Radtko`	Double Knockout Rose	24" Ht	Cont/B&B

GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
NW	80	Nepeta x faassenii `Walkers Low`	Walkers Low Catmint	1 gal.	Cont	24" o.c.

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
1	LAWN	
2	SPADE EDGE	5/L200
3	CRUSHED STONE TRAIL	6/L200
4	EXISTING PLANTINGS TO REMAIN; REPLACE AS NEEDED WITH SAME	

1 PLANTING PLAN

NORTH

0 5' 10' 20'

SCALE: 1" = 10'-0"

GENERAL PLANTING NOTES

A. PLANT MATERIAL SHALL BE INSTALLED AND MAINTAINED BY A QUALIFIED AND EXPERIENCED LANDSCAPE CONTRACTOR.

B. LOCATE AND VERIFY ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO STARTING LANDSCAPE WORK.

C. STAKE AND CONFIRM ALL DIMENSIONS, GRADES, AND PLANT LAYOUT PRIOR TO STARTING WORK. REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT IMMEDIATELY.

D. SEED ALL AREAS DISTURBED BY CONTRACTOR'S OPERATIONS, INCLUDING AREAS BEYOND.

E. PLANTING BEDS SHALL RECEIVE SPADE EDGE UNLESS OTHERWISE NOTED.

F. CONTRACTOR SHALL PROVIDE PLANT MATERIAL IN QUANTITIES AND SPECIES SHOWN ON PLANS. SUBSTITUTIONS SHALL NOT BE ALLOWED UNLESS SUBMITTED IN WRITING AT LEAST 10 DAYS PRIOR TO BID DATE AND APPROVED VIA ADDENDUM BY LANDSCAPE ARCHITECT.

G. AMEND OR INSTALL TOPSOIL MEETING ASTM D5268 STANDARDS. TOPSOIL SHALL BE FREE OF DELETERIOUS MATERIALS OR EXTRANEOUS MATERIALS LARGER THAN 1". VERIFY DEPTH AND QUALITY OF TOPSOIL PRIOR TO PLANT INSTALLATION. LAWN AREAS SHALL HAVE A MIN. OF 4" TOPSOIL, AND PLANTING BEDS A MIN. OF 12". TOPSOIL SHALL BE STOCKPILED AND REUSED ON SITE. WHERE QUANTITIES ARE INSUFFICIENT, TOPSOIL MAY BE IMPORTED FROM OFF SITE, DO NOT OBTAIN FROM BOGS, MARSHES, WETLANDS, OR AGRICULTURAL LAND. APPLY INORGANIC AMENDMENTS, ORGANIC AMENDMENTS, AND FERTILIZERS AS NEEDED FOR LONG TERM PLANT HEALTH.

H. ROOT BALL SHALL MEET OR EXCEED SIZES SET FORTH IN CURRENT AMERICAN STANDARDS FOR NURSERY STOCK.

I. PROVIDE 3" SHREDDED HARDWOOD MULCH IN 6' DIAMETER AROUND ALL TREES IN LAWN AREAS.

J. PROVIDE PRE-EMERGENT HERBICIDE ON PLANTING BEDS AT RATES PER MANUFACTURER'S DIRECTIONS.

K. TREES SHALL NOT BE STAKED EXCEPT WITH APPROVAL FROM LANDSCAPE ARCHITECT FOR ACCOMMODATION OF ENVIRONMENTAL CONDITIONS.

L. INSTALL ALL PLANT MATERIAL IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AS REQUIRED BY LOCAL JURISDICTIONS.

M. PLANT MATERIAL AND WORKMANSHIP SHALL BE WARRANTED FOR A PERIOD OF 1 YEAR FROM SUBSTANTIAL COMPLETION. REPLACE ALL PLANTS MORE THAN 1/4 DEAD AS SOON AS WEATHER CONDITIONS ALLOW THROUGHOUT WARRANTEE PERIOD.

N. QUANTITIES SHOWN IN PLANT SCHEDULE ARE FOR LANDSCAPE ARCHITECT'S PURPOSES AND FOR LOCAL REGULATORY REVIEW. CONTRACTOR IS RESPONSIBLE TO PROVIDE PLANTS IN QUANTITIES AND SPACING AS DEPICTED ON PLANTING PLANS. IF DISCREPANCIES EXIST QUANTITIES SHOWN ON PLANS SHALL DICTATE.

IRRIGATION NOTES

A. IRRIGATION SHALL BE PROVIDED AS DESIGN BUILD STAND ALONE SYSTEM. MATERIALS SHALL MATCH EXISTING WITHIN COXHALL GARDEN. CONTROLLER SHALL BE IN ADJACENT BATHROOM OR WITHIN NEW PAVILLION STRUCTURE. COORDINATE FINAL LOCATION ON SITE WITH OWNER.

B. PROVIDE IRRIGATION WITHIN LIMITS SHOWN.

C. UTILIZE ROTORS/SPRAY FOR LAWN AREAS.

D. UTILIZE LOW FLOW TECHNIQUES WITHIN ALL PLANTING BEDS.

E. IRRIGATION CONTRACTOR SHALL PROVIDE HEAD LAYOUT FOR ALL AREAS TO BE IRRIGATED, VERIFY WATER PRESSURE TO ENSURE ZONES WILL RECEIVE ADEQUATE PRESSURE FOR ALL HEADS AND ROTORS.

F. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO BE FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATIONS OF WALLS, STRUCTURES AND UTILITIES AND MAKE THE NECESSARY ADJUSTMENTS TO ACCOMMODATE THE IRRIGATION SYSTEM AS DESIGNED.

G. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO DESIGN AND CONSTRUCTION. REPORT DIFFERENCES BETWEEN REQUIREMENTS AND ACTUAL READINGS TO THE OWNER'S AUTHORIZED REPRESENTATIVE. A BOOSTER PUMP MAY BE NECESSARY IF THE REQUIRED PRESSURE IS NOT AVAILABLE. ADDITIONAL WORK SHALL BE COORDINATED WITH CONSTRUCTION MANAGER, VERIFY EXACT POINT OF CONNECTION LOCATION IN THE FIELD WITH THE OWNER'S REPRESENTATIVE. THE FLOW DEMAND FOR INDIVIDUAL MAINLINES SHALL NOT EXCEED THE FOLLOWING GUIDELINES: 1.25" CLASS 160=18-28GPM.

H. UTILIZE EXISTING POWER SOURCE AT THE CONTROLLER LOCATION. THE IRRIGATION CONTRACTOR SHALL MAKE THE FINAL CONNECTION FROM THE ELECTRICAL SOURCE TO THE CONTROLLER.

I. A RAIN SENSOR SHALL BE INSTALLED IN THE VICINITY OF THE CONTROLLER. COORDINATE MOUNTING LOCATION WITH THE OWNER.

J. INSTALL ALL BACKFLOW PREVENTION DEVICES AND ALL PIPING BETWEEN THE POINT OF CONNECTION AND THE BACKFLOW PREVENTER AS PER LOCAL CODES.

K. FINAL LOCATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER SHALL BE APPROVED BY THE OWNERS REPRESENTATIVE PER LOCAL CODES.

L. A QUICK COUPLING VALVE SHALL BE LOCATED AT THE IRRIGATION WATER SUPPLY POINT OF CONNECTION TO PROVIDE FOR A POINT OF INJECTION OF COMPRESSED AIR TO PURGE THE SYSTEM OF RETAINED WATER FOR WINTERIZATION.

M. ALL PIPE AND COMMUNICATION WIRE UNDER HARD SURFACES SHALL BE PLACED IN SEPARATE SLEEVING. ALL WIRE SHALL RUN WHENEVER POSSIBLE WITH THE MAINLINE.

N. ALL LATERAL ZONES SHALL BE CONNECTED TO THE MAINLINE WITH PVC PIPE AND SIZED AS FOLLOWS: 1" CLASS 200=0-30GPM

O. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR AND FLUSH TO FINISH GRADE AND WITH A CLEARANCE OF 2" (MIN.) FROM THE EDGE OF ANY HARDSCAPE UNLESS OTHERWISE SPECIFIED.

P. CHECK VALVES SHALL BE INSTALLED ON ALL IRRIGATION HEADS IN AREAS WHERE FINISH GRADE EXCEEDS 4:1. WHERE POST VALVE SHUTOFF DRAINING OF THE IRRIGATION HEAD OCCURS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

Q. ALL SPRINKLER HEADS AND VALVES SHALL BE FLUSHED AND ADJUSTED FOR OPTIMUM COVERAGE WITH MINIMUM OVERSPRAY ON HARDSCAPES OR BUILDINGS.

R. PROVIDE PRESSURE COMPENSATING SCREENS AND/OR NOZZLES TO REDUCE OR ELIMINATE OVERSPRAY INTO WALKS, STREETS, OR OTHER AREAS DIRECTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

S. ALL IRRIGATION EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

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PLANTING PLAN

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

SEALED BY

JEFFREY R. MADER
REGISTERED
No. LA20000264
STATE OF INDIANA
LANDSCAPE ARCHITECT
EXP. 12.31.2020

DRAWN BY: LH

CHECKED BY: MT

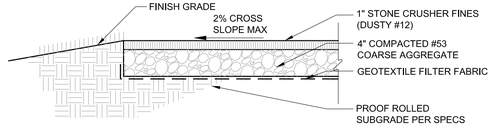
QUALITY CONTROL BY: Approver

SCALE: 1" = 10'-0"

SHEET NO.: L100

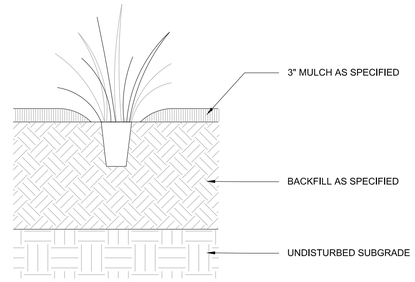
DATE: 2020/04/21

PROJECT NUMBER: 990433-10705



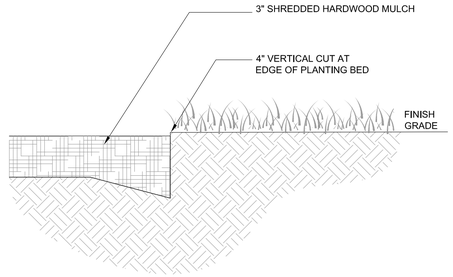
6 CRUSHED STONE TRAIL

1" = 1'-0" P-CX-02



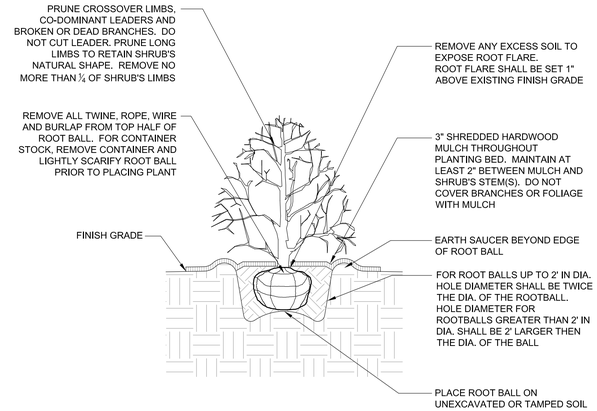
3 PERENNIALS & GRASSES

1" = 1'-0" P-CX-04



5 SPADE EDGE

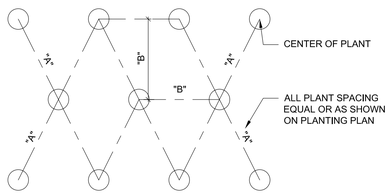
1" = 1'-0" P-CX-08



2 SHRUB PLANTING

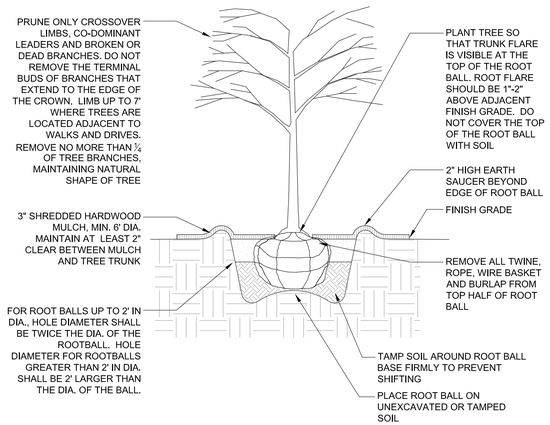
1" = 1'-0" P-CX-03

"A"	"B"	NO. OF PLANTS/SF
6" O.C.	5.2"	4.61
8" O.C.	6.93"	2.6
10" O.C.	8.66"	1.66
12" O.C.	10.4"	1.15
15" O.C.	13.0"	.738
18" O.C.	15.6"	.512
24" O.C.	20.8"	.29
30" O.C.	26.0"	.185
36" O.C.	30.0"	.128



4 PLANT SPACING

1" = 1'-0" P-CX-05



1 TREE PLANTING

1" = 1'-0" P-CX-01

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

CONSULTANTS

mader design
integrating people and nature®
302 Main Street, Beech Grove, Indiana 46107
317.780.1555 317.780.1570
www.maderdesignllc.com

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ENVIRONMENTAL PLANNING
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PLANTING DETAILS

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

SEALED BY

JEFFREY R. MADER
REGISTERED
No. LA20000264
STATE OF INDIANA
LANDSCAPE ARCHITECT
EXP. 12.31.2020

Drawn By: LH

Checked By: MT

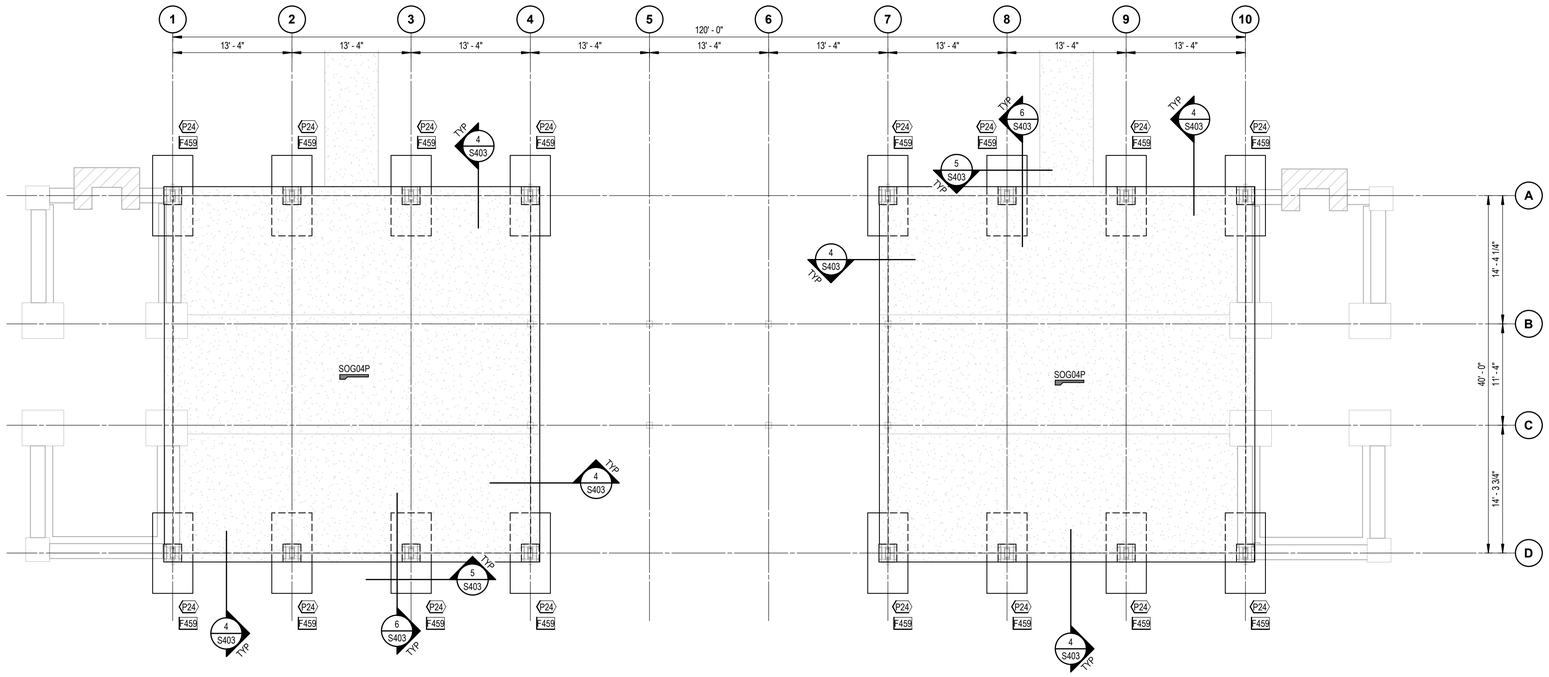
Quality Assurance: Approver

Scale: 1" = 10'-0"

Job No: L200

Date: 2020/04/21

Project Number: 990433-10705



FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

0 1' 2' 4' 8' 16'

PLAN NORTH

FOUNDATION PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +0'-0", SEE CIVIL DRAWINGS.
2. SEE S401 FOR GENERAL NOTES AND S402 FOR SCHEDULES.
3. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
4. TOP OF SLAB (T/SLAB) +100'-0", UNO.
5. TOP OF FOOTING (T/F) +98'-6", UNO.
6. TOP OF PIERS (T/P) +100'-0", UNO.
7. TOP OF WALL FOOTING (T/WF) +(100'-0")
8. ALTERNATE FOR BIDDING INCLUDES BRICK VENEER COLUMN WRAPS AT SHELTER STRUCTURE, SEE 05/S403.
9. ALL STRUCTURAL STEEL AND PERGOLA STEEL PROVIDED BY OTHERS, (TYP).
10. ALL EXTERIOR EXPOSED STEEL IS REQUIRED TO BE GALVANIZED FOR CORROSION PROTECTION.

4/17/2020 12:00:02 PM

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

McCOMAS/ O'DONNELL & NACCARATO STRUCTURAL ENGINEERS
O'DONNELL & NACCARATO, INC.
1717 EAST 116th STREET | SUITE 200 | CARMEL, INDIANA 46032
(317) 580-0402 | WWW.O-N.com | Project No. 7039.0036.00

3939 PRIORITY WAY SOUTH DRIVE
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INDIANAPOLIS, INDIANA 46240
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SURVEY • 3D LASER SCANNING
MEP/FP • FOOD SERVICE
EQUIPMENT PLANNING
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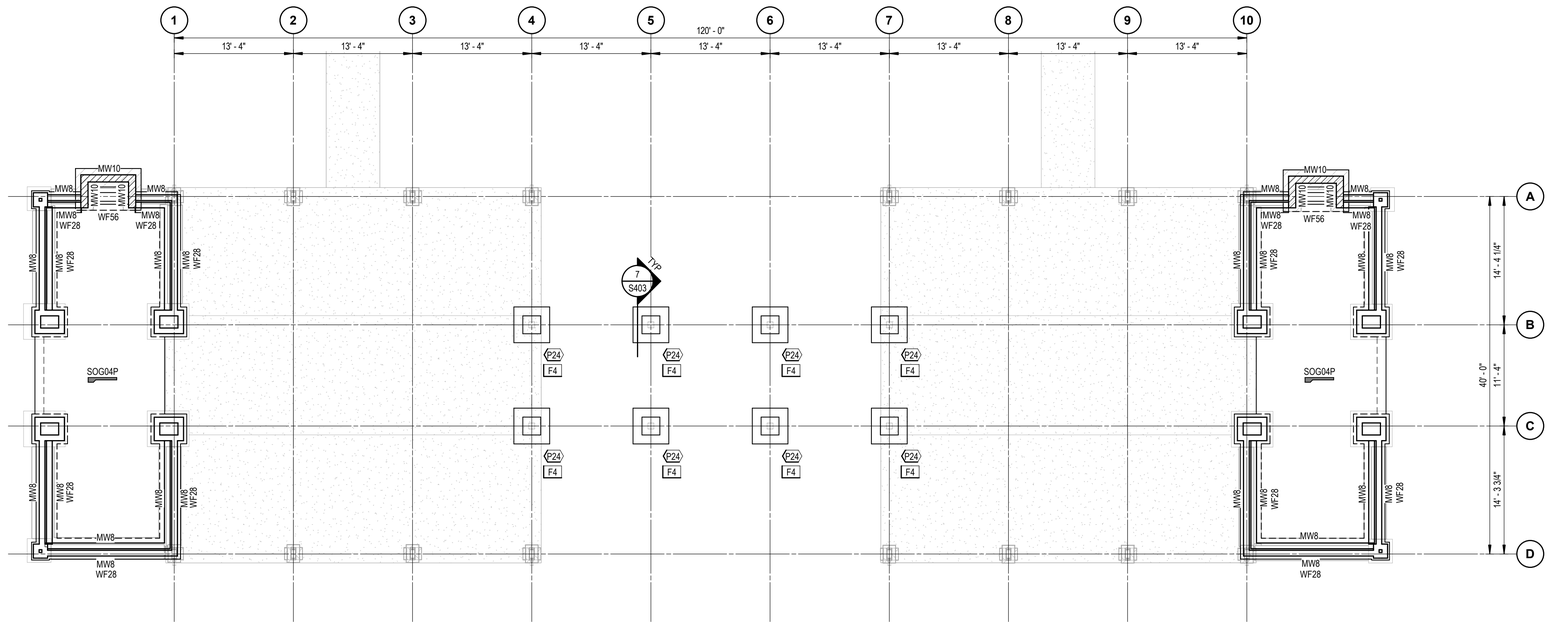
FOUNDATION PLAN

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

C. RODNEY McCOMAS
No. 860325
STATE OF INDIANA
PROFESSIONAL ENGINEER

Drawn By:	KLS
Checked By:	ACV
Quality Assurance:	CRM
Scale:	1/8" = 1'-0"
Sheet:	S101
Date:	2020/04/21
Project Number:	990433-10705



ALTERNATE FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

0 1' 2' 4' 8' 16'

PLAN NORTH

FOUNDATION PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +0'-0", SEE CIVIL DRAWINGS.
2. SEE S401 FOR GENERAL NOTES AND S402 FOR SCHEDULES.
3. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
4. TOP OF FOOTING (T/F) +97'-10", UNO.
5. TOP OF PIERS (T/P) +99'-4", UNO.
6. ALTERNATE FOR BIDDING INCLUDES BRICK VENEER COLUMN WRAPS AT SHELTER STRUCTURE, SEE 05/S403.
7. ALL STRUCTURAL STEEL AND PERGOLA STEEL PROVIDED BY OTHERS, (TYP).

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

McCOMAS/ O'DONNELL& NACCARATO
STRUCTURAL ENGINEERS
O'DONNELL & NACCARATO, INC.
1717 EAST 116th STREET | SUITE 200 | CARMEL, INDIANA 46032
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ALTERNATE FOUNDATION PLAN

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL

2000 W. 116TH STREET, CARMEL, IN 46032

C. RONNEY McCOMAS
No. 860325
STATE OF INDIANA
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Drawn By	KLS
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Quality Assurance	CRM
Scale	1/8" = 1'-0"
Sheet	S101A
Date	2020/04/21
Project Number	990433-10705

4/17/2020 12:00:03 PM

ABBREVIATIONS LIST

AR	ANCHOR RODS
ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJACENT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ALUM	ALUMINUM
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT
ARCHL	ARCHITECTURAL
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS
AWS	AMERICAN WELDING SOCIETY
L	ANGLE
BAL	BALANCE
BB	BOND BEAM
B/B	BACK TO BACK
BC	BOTTOM CHORD
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLW	BELOW
BM	BEAM
BOTT	BOTTOM
BP	BEARING PLATE
BRDG	BRIDGING
BRG	BEARING
BRK	BRICK
BS	BOTH SIDES
BSMT	BASEMENT
BTWN	BETWEEN
BUC	BUILT UP COLUMN
c	CAMBER
C/C	CENTER TO CENTER
CANT	CANTILEVER
CAIS	CAISSON
CFS	COLD FORMED STEEL
CJ	CONTROL AND/OR CONSTRUCTION JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COORD	COORDINATE
COMP	COMPACTED
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTR	CENTER
CTR'D	CENTERED
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DLT	DEEP LEG TRACK
DO	DITTO
DN	DOWN
DTL	DETAIL
DWG	DRAWING
DWL	DOWEL
EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
ENG	ENGINEER
ELEV	ELEVATION
ELECT	ELECTRICAL
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIV	EQUIVALENT
ES	EACH SIDE
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F/	FACE OF
FD	FLOOR DRAIN
FDN	FOUNDATION
FIN	FINISH
FLR	FLOOR
FLG	FLANGE
FS	FARSIDE
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GL	GLULAM
GR	GRADE
HC	HOLLOW CORE
HD	HOLD DOWN
HGT	HEIGHT
HI	HIGH
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HS	HEADED STUD
HSS	HOLLOW STRUCTURAL SECTION
ID	INSIDE DIAMETER
IF	INSIDE FACE
INFO	INFORMATION
INT	INTERIOR
INV	INVERT
JST	JOIST
JT	JOINT
K	KIP
KO	KNOCK OUT
LB	POUND
LDG	LEDGE
LG	LONG
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNTL	LINTEL
LSL	LONG SLOTTED HOLES
LONG	LONGITUDINAL
LP	LOW POINT
LVL	LAMINATED VENEER LUMBER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBM	METAL BUILDING MFR
MCJ	MASONRY CONTROL JT
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOM	MOMENT
MSW	MASONRY SHEAR WALL
MSL	MEAN SEA LEVEL
MTL	METAL
NO	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
O/O	OUT TO OUT
OA	OVERALL
O/C	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OVER HEAD
OPNG	OPENING
OPP	OPPOSITE
OPP HD	OPPOSITE HAND
OSB	ORIENTED STRAND BOARD
OSL	OUTSTANDING LEG
OVS	OVERSIZE HOLE
PAF	POWDER ACTUATED FASTENER
PC	PRECAST
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNL	PANEL
PROJ	PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	PRESSURE TREATED
PTN	PARTITION
R	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCE(D) (ING) (MENT)
REQ'D	REQUIRED
REV	REVISION/REVISED
RO	ROUGH OPENING
RRD	ROOF RELIEF DRAIN
RTN	RETURN
RTU	ROOF TOP UNIT
RW	RETAINING WALL
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SJ	SAWCUT JOINT
SJI	STEEL JOIST INSTITUTE
SL	SLOPED
SPA	SPACE(S)
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
SSL	SHORT SLOTTED HOLES
STD	STANDARD
STIFF	STIFFENERS
STL	STEEL
STRUCT	STRUCTURAL
SYMM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TB	TIE BEAM
TC	TOP CHORD
TCX	TOP CHORD EXTENSION
TEMP	TEMPERATURE
TF	TRENCH FOOTING
THK	THICK
THKS	THICKENED SLAB
THR'D	THREADED
TL	TOTAL LOAD
TOP'G	TOPPING
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
w/	WITH
WD	WOOD
WO	WINDOW OPENING (MASONRY)
WP	WORKING POINT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

ELEVATION TOP AND BOTTOM OF LIST

T/	"ELEVATION, TOP OF"
B/	"ELEVATION, BOTTOM OF"
T/BB	TOP OF BOND BEAM
T/BM	TOP OF BEAM
T/CONC	TOP OF CONCRETE
T/F	TOP OF FOOTING
T/LDG	TOP OF LEDGE
T/MAS	TOP OF MASONRY
T/P	TOP OF PIER
T/SLAB	TOP OF SLAB
T/STL	TOP OF STEEL
T/W	TOP OF WALL
T/GB	TOP OF GRADE BEAM
T/CAIS	TOP OF CAISSON
B/PL	BOTTOM OF PLATE
B/F	BOTTOM OF FOOTING

SPECIAL CHARACTERS

°	DEGREE
±	PLUS OR MINUS
⌀	ELEVATION
Ø	DIAMETER

COLUMN FOOTING SCHEDULE (v2 simple)

Mark	Ftg Dimensions Width	Length	Thickness	Bottom Reinforcing: Short Direction No	Size	Length	Long Direction No	Size	Length	Remarks
F459	4' - 6"	9' - 0"	1' - 6"	4	#6	4' - 0"	8	#6	8' - 6"	

Column Footing Schedule Notes:
1. Reinforcing clearance at bottom and sides of footings = 3"
2. Use concrete brick of CRSI Class 3, CHCP wire bar supports @ 36".

PIER SCHEDULE (v3)

Mark	Pier Size Width	Length	Vert Reinf No	Size	Ties Size	Spa	Tie Type	Remarks
P24	2' - 0"	2' - 0"	8	#8	#3	1' - 0"		

Pier Schedule Notes:
1. Provide 2 inch concrete cover over ties.
2. Space first tie 2" from top of footing, last tie 2" from top of pier.
3. Provide (3) ties in top of pier, spacing = 2 1/2" on center.
4. Provide CRSI typical bar bend T5 for all ties.
5. Provide CRSI typical bar bend T9 additional ties for all piers with more than four vertical bars.
6. Provide 90° Hook for all ties per CRSI detailing standards. .

SLAB ON GRADE SCHEDULE (v2)

Mark	Thickness	Reinforcing	Control Jt Depth	Reinf Clearance	Control Jt Spa	Vapor Retarder	Sub-Base Depth	Remarks
SOG04P	4"	6x6-W1.4xW1.4 WWF	1"	1 1/2"	13' - 0"	Plastic	6"	

Slab on Grade Schedule Notes:
1. Reinforcing clearance is from the top of slab.

MASONRY WALL SCHEDULE (v3)

Mark	Thickness	Vertical Wall Reinforcing: Reinforcing Size	Spa	Location	Dowel Reinforcing Size	Spa	Horiz Reinf Size	Spa	Top of Wall Bond Beam Reinforcing No. of	Size	Remarks
MW8	7 5/8"	#5	4' - 0"	Center	#5	4' - 0"	Ladder	1' - 4"	2	#5	
MW10	9 5/8"	#5	4' - 0"	Center	#5	4' - 0"	Ladder	1' - 4"	2	#5	

Masonry Wall Schedule Notes"
1. Provide 2" cover from outside face for bars in each face.
2. Grout all cores with rebar solid, unless solid grouted wall is shown.
3. Provide ladder type horizontal reinforcement at 16" o.c., unless noted otherwise. Side and cross rods shall be #9 wire, galvanized, see specifications. Cut joint reinforcement at control joints.
4. Provide bond beam with (2) #5 cont. at top of wall, unless noted otherwise. See schedule for additional bond beams.

WALL FOOTING SCHEDULE (v2 simple)

Mark	Dimensions Width	Thickness	Bottom Reinf: Longitudinal Reinf No	Size	Transverse Reinf Size	Spa	Remarks
WF28	2' - 4"	1' - 6"	5	#5	NA	0"	
WF56	4' - 8"	1' - 6"	10	#5	NA	0"	

Wall Footing Schedule Notes:
1. Reinforcing clearance at bottom and sides of footings = 3"
2. Use concrete brick of CRSI Class 3, CHCP wire bar supports @ 36".

033000 CAST IN PLACE CONCRETE NOTES (Foundations, Slabs, & Walls)

RC1. All concrete shall have the following 28 day compressive strengths:

STRENGTH	LOCATION
3000 psi-0% AE	All foundations and footings
4000 psi-6% AE	Exterior slabs, piers, walls, columns, grade beams and concrete exposed to freezing
4000 psi-0% AE	Interior slabs, fill for metal deck and all other interior concrete

RC2. All reinforcing shall conform to the following concrete cover:

COVER	LOCATION
3"	Foundations & Footings: All surfaces; Exterior Slabs: Bottom; Grade Beams & Trench Footings: All surfaces; All concrete cast against soil
2"	Exterior Walls, All Piers & All Pilasters: All surfaces; Exterior Slabs: Top; All exterior concrete
1 1/2"	Interior beams, columns & walls: All surfaces; All concrete not exposed to weather or in contact with ground
3/4"	Interior slabs & Walls

RC3. Welded Wire Fabric (WWF) for slabs and fill for metal deck shall be placed in the upper-third of the slab or fill. See details.
RC4. All reinforcing steel shall be detailed, supplied and placed in accordance with ACI 315, ACI 318 and CRSI MSP-1.
RC5. All reinforcing steel shall be shop fabricated and, where applicable, shall be wired together and conform to ASTM A-615, Grade 60.
RC6. Chamfer edges of exposed concrete 3/4", unless noted otherwise.
RC7. Contractor shall make four, 6"x12" test cylinders for each 50 cubic yards of concrete poured for each days operation. Break 1 at 7 days, 2 at 28 days and retain spare.
RC8. All welded wire fabric shall conform to ASTM A185, Fy(min) of 65 ksi. All welded wire fabric laps shall be 8".
RC9. All finished concrete, concrete formwork and falsework shall be in accordance with ACI 301. Contractor is solely responsible for the design and construction of all formwork, falsework and shoring.
RC10. Provide sleeves for all openings in grade beams or walls to totally separate pipe from concrete.
RC11. Foundations may be earth-formed where the excavation permits. If earth-forming is used, add 2" to the width, length & thickness of all foundations.
RC12. Plastic Vapor Retarder: ASTM E 1745, Class A, not less than 10 mils (0.25 mm) thick, see specifications. Include manufacturer's recommended adhesive or pressure-sensitive joint tape.
RC13. Fiber Reinforcement, if indicated on drawings, shall be 100% virgin polypropylene in collated, fibrillated form, complying with ASTM C 1116, minimum length of 3/4". Minimum dosage = 1.5 pounds per cubic yard.
RC14. Adhesive Anchors and Adhesives Used for Reinforcing Anchorage:
1. The adhesive anchor system used for post-installed anchorage to concrete shall conform to the requirements of the most recently published ACI 355.4.
2. Adhesive anchors indicated are the Basis-of-Design. Approved equal meeting ACI 355.4 is permitted.
3. Bulk-mixed adhesives are not permitted.
4. Anchors shall be supplied as an entire system with manufacturer's recommendations adhered to.
5. Adhesive anchors shall be installed by qualified personnel trained to install adhesive anchors.
6. Installation of adhesive anchors horizontally or upwardly inclined shall be performed by personnel certified by the ACI/CRSI Adhesive Anchor Installer Certification program.
7. Adhesive anchors installed in horizontal or upwardly inclined orientations shall be continuously inspected during installation by an inspector specially approved for that purpose.

RC15. Bonding agent for bonding fresh concrete to hardened concrete: ASTM C 1059/C 1059M, Type II, nonredispersible, acrylic emulsion or styrene butadiene.

042000 MASONRY AND REINFORCED MASONRY NOTES

M1. Minimum 28 day compressive strength of concrete masonry units shall be 2800 p.s.i. based on net area of the unit. Specified design compressive strength of masonry shall be f'm = 2000 p.s.i. All units for exterior walls, load-bearing walls and shear walls shall be normal weight block.
M2. All mortar shall be Type S. No admixtures may used unless approved by architect/engineer. Mortar shall not be used for grouting cores or filling bond beams.
M3. All block shall be laid in a running bond pattern.
M4. Course grout shall be used were grouting is required. Slump shall be 8" +/- 1". Minimum grout compressive strength shall be 3000 p.s.i.
M5. All reinforcing shall be ASTM A615 Grade 60 (Fy=60 ksi). Lap all reinforcing a minimum of 48 bar diameters.
M6. Center vertical reinforcing in block cores, unless noted otherwise.
M7. See architectural and specifications for all control joint locations. Reinforcing in bond beams shall be discontinuous at control joints.
M8. Provide ladder type horizontal joint reinforcement at 16" o.c. Side rods and cross rods shall be #9 wire, galvanized, see specifications. Cut joint reinforcement at control joints.
M9. Provide "L" bars at all bond beam corners as required.
M10. Fill cores of block solid with grout two full courses below the bearing of all beams or lintels supported on masonry.
M11. All attachments to block shall be made with Hilti HLC 1/2" diameter x 3" sleeve anchors, unless noted otherwise. Anchors shall be installed per manufacturer's recommendations.
M12. See typical schedules for masonry and steel lintels not indicated on plans.
M13. All masonry units below grade to be grouted solid.
M14. Provide ties to all structural steel.
M15. All interior, non-load bearing masonry walls over 12'-0" high, shall be supported on thickened slab as per typical detail. Wall vertical reinforcing shall be #5 @ 48" OC full height. Unless noted otherwise.
M16. All cores with reinforcing steel shall be grouted solid, full height of wall.

GENERAL NOTES

DESIGN TABLE			
Model Building Code:	2012 International Building Code		
Local Building Code:	Indiana Building Code 2014		
Model Code Standard:	ASCE 7-10		
Steel Standard:	AISC 360-10		
Steel Seismic Standard:	AISC 341-10		
Concrete Standard:	ACI 318-11		
Masonry Standard:	ACI 530-11		
Wood Standard:	AITC/APA/NDS Current Ed.		
Risk Category:	II	Normal Risk	
ROOF DESIGN LOADS	Dead	Live	Snow
Main Shelter	10.0 psf	20.0 psf	20.0 psf
Pergola	10.0 psf	20.0 psf	20.0 psf
SOILS	Spread	Wall	
Allowable Bearing Pressure, qa:	2000 psf	2000 psf	
Minimum Foundation Bearing Depth:	36 in		
SLAB ON GRADE			
Compacted Fill Thickness:	6 in		
Compaction Specification:	95% Modified Proctor D-1557		
SNOW DESIGN CRITERIA			
Ground Snow Load, Pg:	20 psf		
Flat Roof Snow Load, Pf:	15 psf		
Importance Factor, Is:	1.0		
Exposure Factor, Ce:	0.9	Fully	
Thermal Factor, Ct:	1.2	Unheated	
Cold Slope Factor, Cs:	1.0		
WIND DESIGN CRITERIA			
Ultimate Wind Speed, Vult:	115 mph		
Design Wind Speed, VASD:	90 mph		
Enclosure Class:	Enclosed		
Internal Pressure Coefficient, GCpi:	0.18		
SEISMIC DESIGN CRITERIA			
Importance Factor, Ie:	1.00		
Mapped Spectral Response, SS:	0.150		
Mapped Spectral Response, S1:	0.082		
Site Class:	D		
Design Spectral Response, SDS:	0.160		
Design Spectral Response, SD1:	0.131		
Seismic Design Category, SDC:	B		
Overstrength Factor, Ω:	3.0		
Seismic Response Coefficient, CS:	0.053		
Response Modification Coeff., R:	3		
Unfactored Design Base Shear, V:	5.3% W		
Analysis Procedure:	ELFA		
Basic Seismic-Force-Resisting System:	A. Steel Systems not Specifically Detailed for Seismic Resistance 1. Steel Systems, R=3		

G8. Reactions and forces indicated are unfactored, Allowable Strength Design (ASD) loads.
G9. If Drawings and specifications are in conflict, the most stringent restrictions and requirements shall govern. Contractor shall bring all discrepancies to the attention of the engineer immediately.
G10. Verify all existing conditions prior to any construction or fabrication. If different than shown, notify engineer/architect immediately for modification of drawings.
G11. All contractors are required to coordinate their work with all disciplines to avoid conflicts. The architectural, mechanical, electrical and plumbing aspects are not in the scope of these drawings. Therefore, all required materials and work may not be indicated. It is the contractor's responsibility to coordinate these drawings with all other construction documents. Refer to architectural drawings for all dimensions not shown on these drawings. Locations, sizes and numbers of all openings may not be completely indicated in the structural drawings. The respective contractor shall verify their work with all other disciplines.
G12. The contract documents represent the structure only. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not limited to, bracing, shoring, underpinning, etc. the Engineer of Record is not responsible for the contractor's means, methods, techniques, sequences or safety procedures during construction.
G13. Notes and details shall take precedence over general structural notes. Where no details or sections are shown, construction shall conform to similar work on the project. Typical sections and details may not be cut on the plans, but apply unless noted otherwise.
G14. Provisions for future expansion:
Vertical: None
Horizontal: None

020000 SHALLOW FOUNDATION AND SLAB ON GRADE NOTES

SF1. Soil to be stripped, compacted and tested in accordance with the recommendations of the soils engineer and project specifications.
SF2. Footings shall be placed on firm, undisturbed soil or on engineered fill. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.
SF3. Slabs shall be placed on compacted, free-draining, frost-free drainage course. Drainage Course: Narrowly graded mixture of washed crushed stone, or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch sieve and 0 to 5 percent passing a No. 8 sieve. All fill shall be compacted to a minimum dry density of 95% of the modified Proctor maximum dry density (ASTM-D1557), placed in 6" to 8" lifts. Pea gravel may not be used as fill. Utility trenches and excavations under the foundations or slabs shall meet the same requirements. See soils investigation report for further recommendations.
SF4. Undercutting of the soil for foundation and/or slab placement may be required. These drawings do not indicate the entire scope of undercutting, fill or bad soil removal that may be required to attain the design soil bearing pressures. It is the responsibility of the contractor to obtain a soils investigation report, before bidding, to assess the extent of excavation and compaction that may be required to meet the design criteria. The contractor shall retain the services of a soils engineer to monitor all backfilling operations and to inspect footing bearing material. A report certified by the soils engineer shall be furnished to the architect/engineer verifying that all foundations were placed on a material capable of sustaining the design bearing pressures.
SF5. If dewatering is required, sumps shall not be placed within the foundation excavation.
SF6. Maintain a maximum slope between adjacent footing bearing elevations of 2 horizontal to 1 vertical. Maintain a 2 horizontal to 1 vertical slope next to existing foundations to avoid undermining foundations.
SF7. No horizontal joints are permitted in any foundation. Vertical joints are permitted only in wall footings.
SF8. Shallow foundations may be earth-formed where the excavation permits. If earth-forming is used, add 2" to the width and length of all foundations.
SF9. The bottom of all foundations shall be a minimum of local frost depth below final grade.

4/17/2020 12:00:04 PM

REVISION SCHEDULE		
REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

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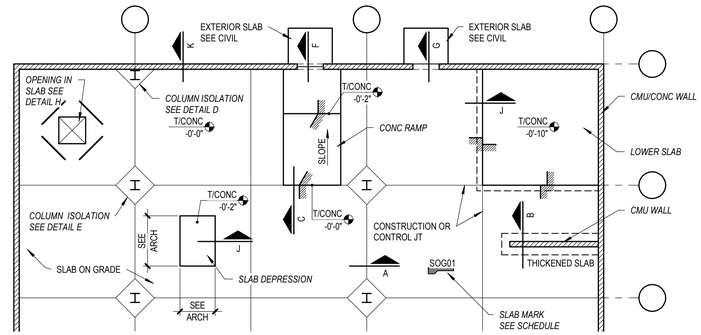
GENERAL NOTES SCHEDULES AND ABBREV

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

C. RODNEY McCOMAS REGISTERED No. 860325 STATE OF INDIANA PROFESSIONAL ENGINEER

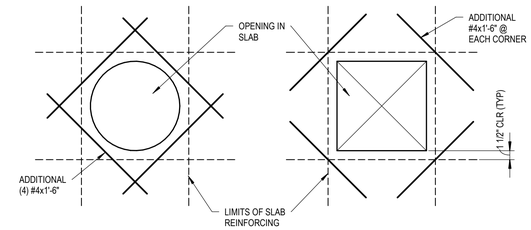
Drawn By:	KLS
Checked By:	ACV
Quality Assurance:	CRM
Scale:	3/4" = 1'-0"
Sheet:	S401
Date:	2020/04/21
Project Number:	990433-10705



TYPICAL SLAB ON GRADE KEY PLAN

SCALE: NTS

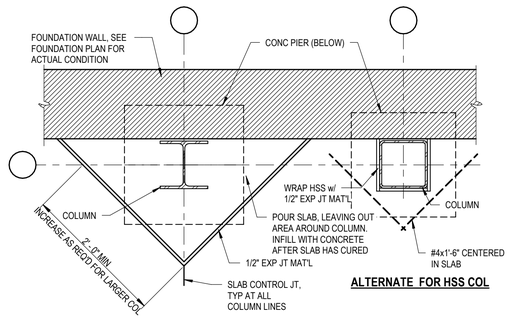
NOTE: KEY PLAN ILLUSTRATES CONSTRUCTION CONCEPTS ONLY. SEE PLAN FOR ACTUAL DIMENSIONS AND ARRANGEMENTS.



TYP SLAB ON GRADE OPENING

SCALE: NTS

H

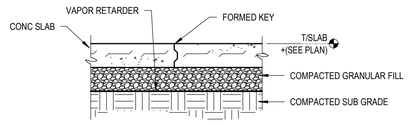


ALTERNATE FOR HSS COL

TYP COLUMN ISOLATION JOINT

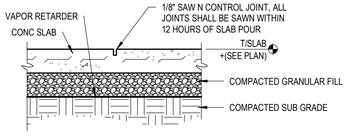
SCALE: NTS

D



TYP SLAB CONSTRUCTION JT

SLAB THICKNESS	MAX JT SPACING	JOINT DEPTH
4"	13'-0"	1"
5"	15'-0"	1 1/4"
6"	15'-0"	1 1/2"
7"	18'-0"	1 3/4"
8"	20'-0"	2"
9"	24'-0"	2 1/4"
10"	25'-0"	2 1/2"
11-0"	25'-0"	3"



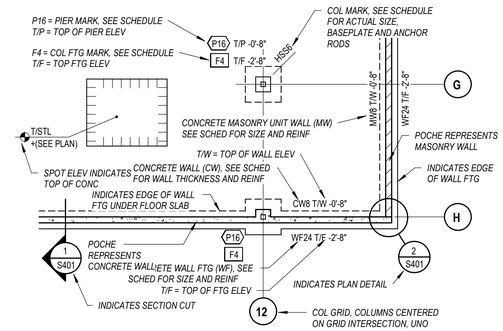
NOTE:
CONTRACTOR TO PROVIDE CONTROL JOINT LAYOUT, BASED ON MAXIMUM JOINT SPACING, UNO.

TYP SLAB CONTROL JT

TYPICAL CONCRETE SLAB JOINTS

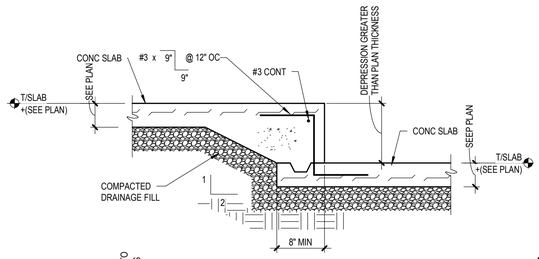
SCALE: NTS

A

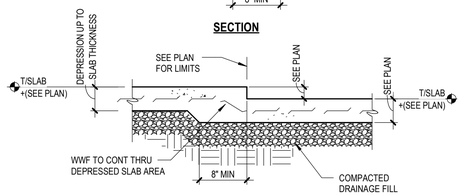


FOUNDATION PLAN LEGEND

SCALE: NTS



SECTION

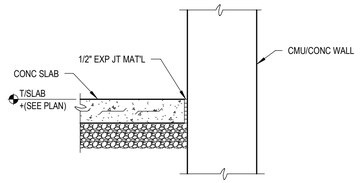


SECTION

TYP DEPRESSED SLAB SECTIONS

SCALE: NTS

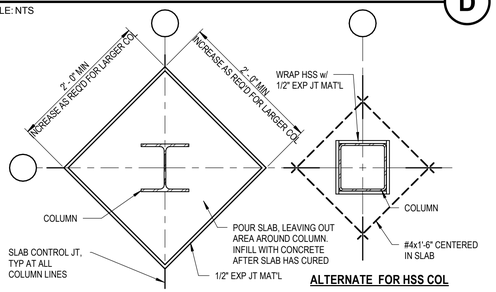
J



TYP EXPANSION JT AT WALL

SCALE: NTS

K

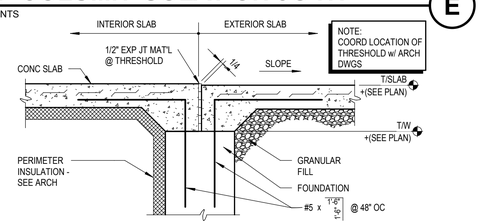


ALTERNATE FOR HSS COL

TYP COLUMN ISOLATION JOINT

SCALE: NTS

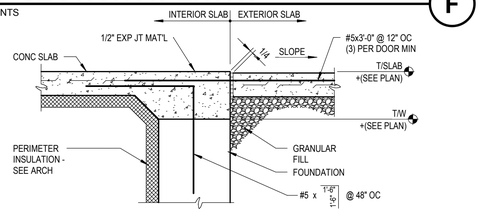
E



TYP SECTION AT ENTRY

SCALE: NTS

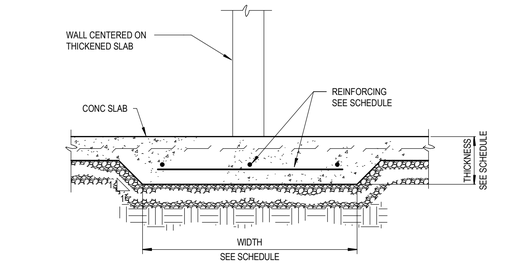
F



TYP SECTION AT EXTERIOR SLAB

SCALE: NTS

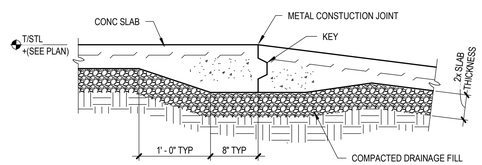
G



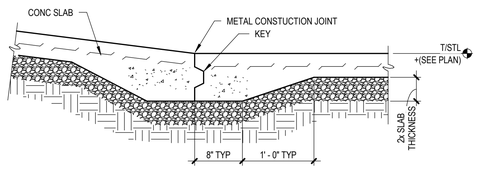
TYPICAL THICKENED SLAB

SCALE: NTS

B



TOP OF RAMP



BOTTOM OF RAMP

TYP CONCRETE RAMP DETAILS

SCALE: NTS

C

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SLAB ON GRADE LEGEND

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL

2000 W. 116TH STREET, CARMEL, IN 46032

C. ROONEY McCOMAS
REGISTERED
No. 860325
STATE OF
PROFESSIONAL ENGINEER

Design By	KLS
Checked By	ACV
Quality Assurance	CRM
Date	As indicated
Sheet	S402
Date	2020/04/21
Project Number	990433-10705

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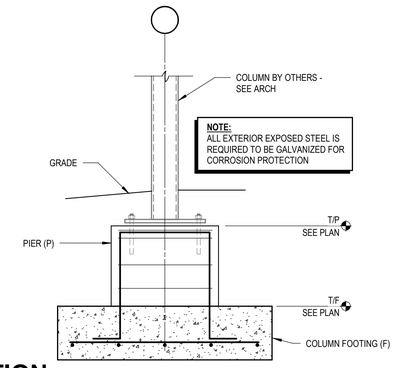
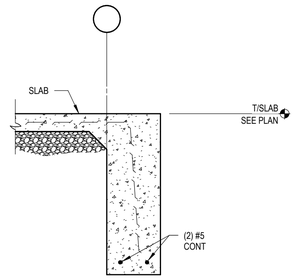


SECTION

SCALE: 3/4" = 1'-0"

7 S403



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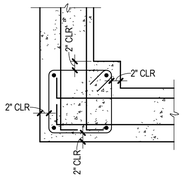
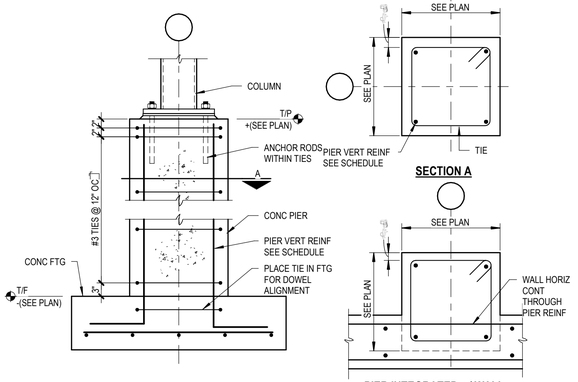
4 S403



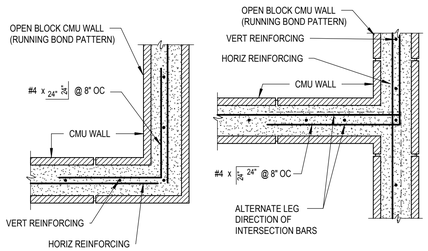
PIER INTEGRATED w/ CORNER



TYPICAL PIER ELEVATION

SCALE: 3/4" = 1'-0"

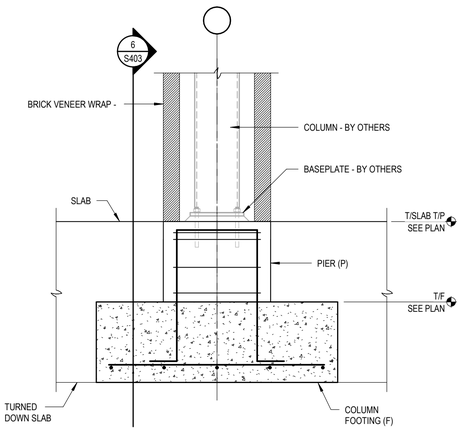
1 S403



TYP BOND BEAM CORNER BAR DETAIL

SCALE: 3/4" = 1'-0"

8 S403



SECTION

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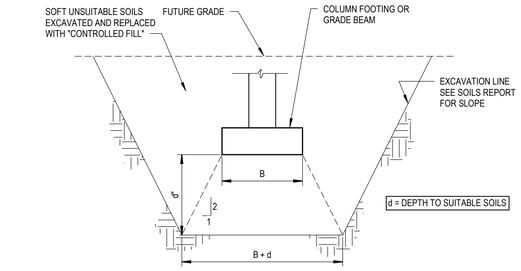
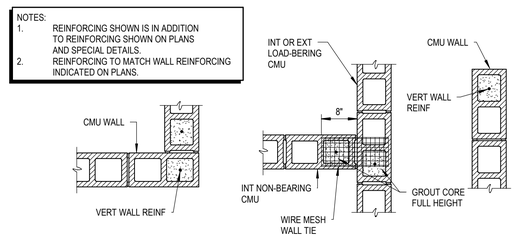
5 S403



CONTROLLED FILL DETAIL

SCALE: 3/4" = 1'-0"

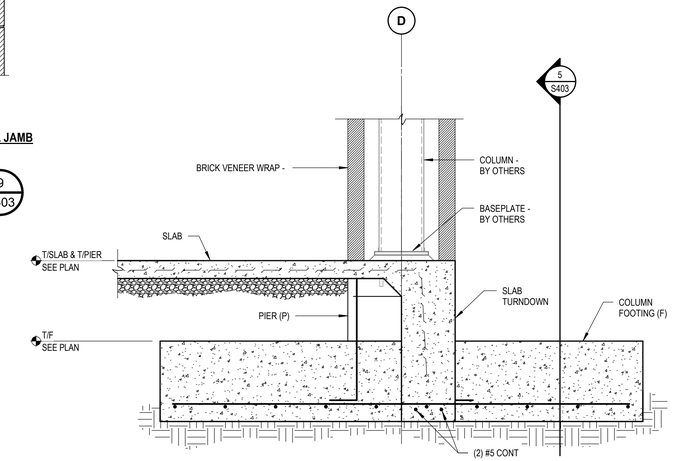
2 S403



TYP MASONRY WALL REINFORCING

SCALE: 3/4" = 1'-0"

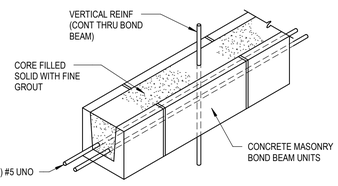
9 S403



SECTION

SCALE: 3/4" = 1'-0"

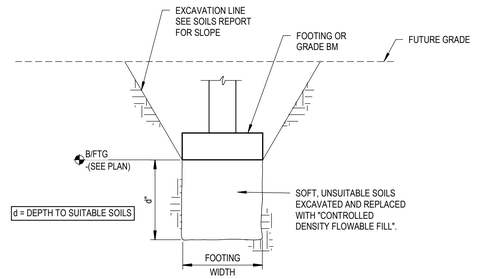
6 S403



TYPICAL BOND BEAM

SCALE: 3/4" = 1'-0"

10 S403



CONTROLLED DENSITY FLOWABLE FILL DETAIL

SCALE: 3/4" = 1'-0"

3 S403

4/17/2020 12:00:06 PM

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SECTIONS & DETAILS

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

C. RODNEY McCOMAS
REGISTERED
No. 860325
STATE OF INDIANA
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Drawn By	KLS
Checked	ACV
Quality Assurance	CRM
Scale	3/4" = 1'-0"
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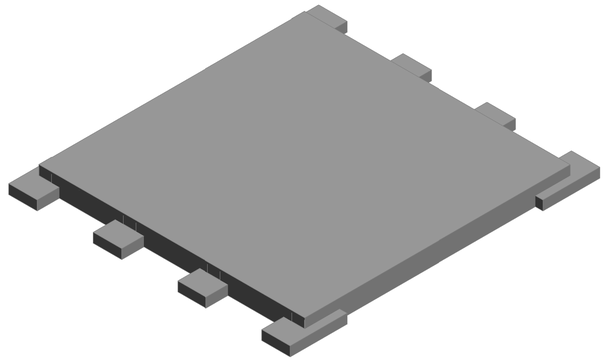
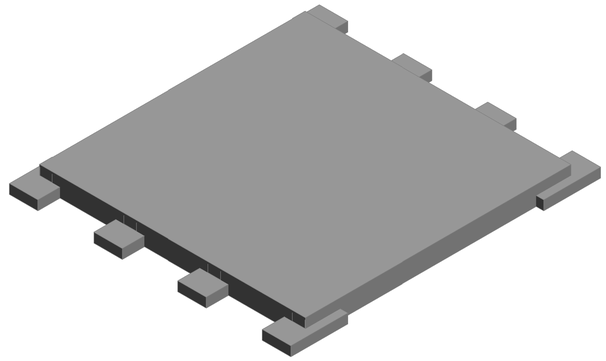
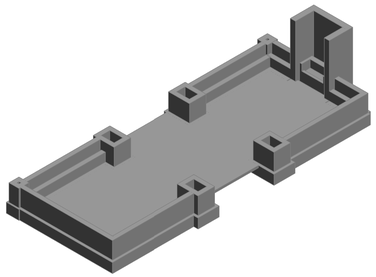
Project Number	990433-10705

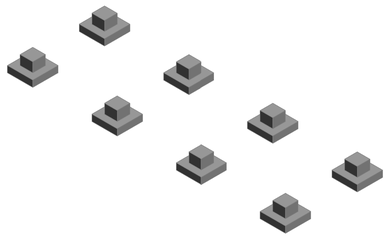


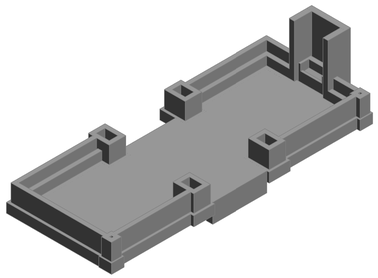


MODEL VIEW

SCALE: NTS







ALTERNATE MODEL VIEW

SCALE: NTS

MODEL VIEWS ARE FOR REFERENCE ONLY. NOT ALL STRUCTURAL MEMBERS ARE SHOWN. REFER TO THE ENTIRE SET OF CONSTRUCTION DOCUMENTS.

4/17/2020 12:00:07 PM

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION
REVISION SCHEDULE		

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MODEL VIEWS

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

C. RODNEY McCOMAS
REGISTERED
No. 860325
STATE OF INDIANA
PROFESSIONAL ENGINEER

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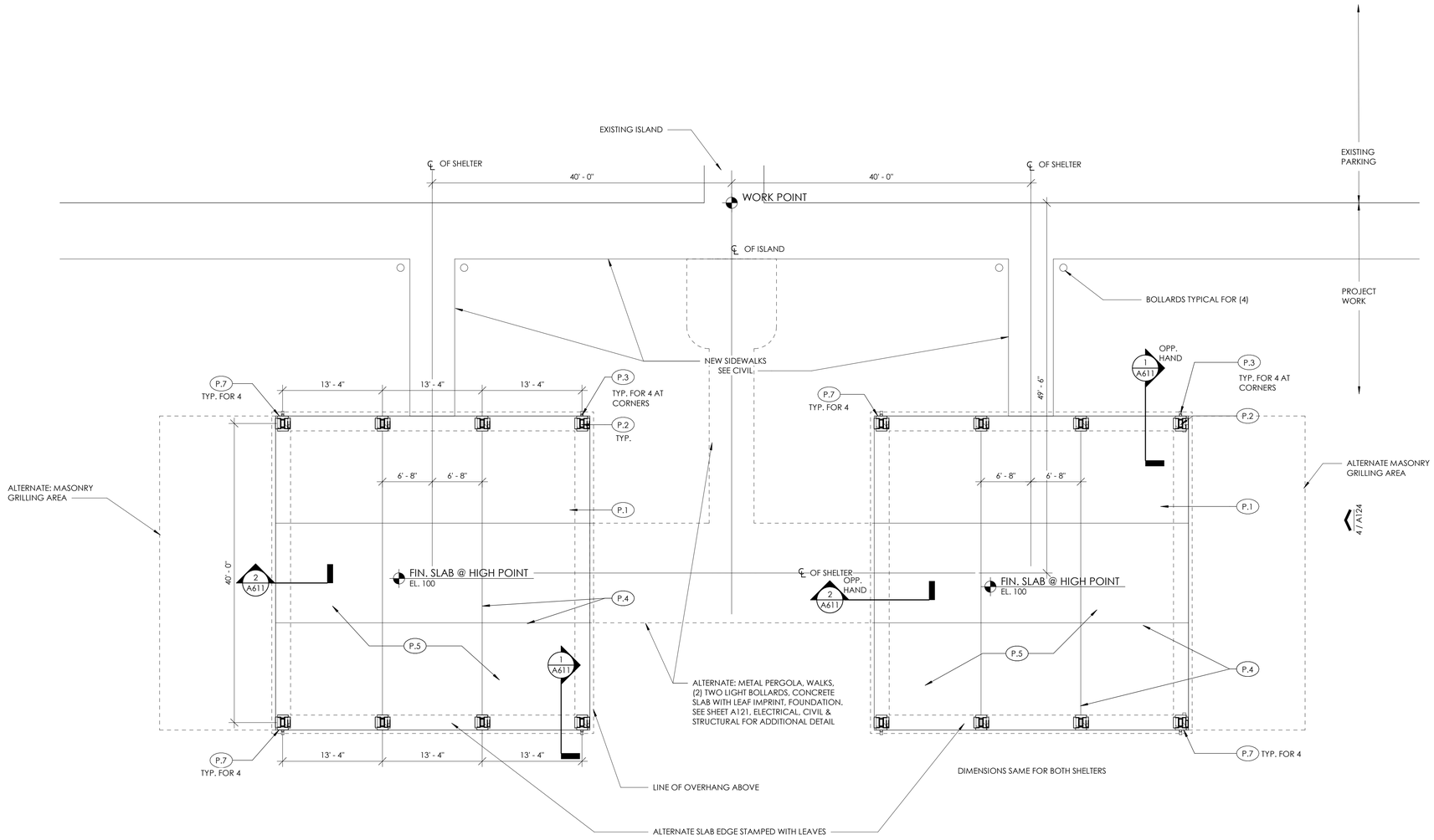
Checked By	ACV
Quality Assurance	CRM
Scale	
Sheet	S600
Date	2020/04/21
Project Number	990433-10705



1 FIRST FLOOR PLAN

1/8" = 1'-0"

NORTH

PLAN KEYNOTES

#	
P.1	SHELTER SLAB WITH LIGHT BROOM FINISH
P.2	PREFINISHED STEEL COLUMN BY SHELTER SUPPLIER
P.3	4" X 4" PREFINISHED METAL DOWNSPOUT TO BOOT
P.4	TOOLED SLAB JOINTS AT 1/3 POINTS OF OVERALL SLAB DIMENSION TYPICALLY
P.5	CONCRETE SLAB WITH LIGHT BROOM FINISH
P.6	LIGHT BOLLARDS: SEE ELECTRICAL DRAWINGS
P.7	BRICK MASONRY AND LIMESTONE COLUMN WRAPS. SEE SHEET A123 FOR DETAILS

BUILDING CODE SUMMARY

APPLICABLE BUILDING CODES
2014 Indiana Building Code
2009 Indiana Electrical Code

SCOPE OF PROJECT
Construction of two picnic shelters and related site improvments.

BUILDING AREA
Building Area (NEW) = 1,764 s.f. x 2 square feet
Total Building Area = 3,528 square feet

OCCUPANCY CLASSIFICATION
Picnic Shelters: A-3 Occupancy [303.4]

CONSTRUCTION TYPE
Type V-B Construction permitted based upon allowable area. [503.1]

ALLOWABLE BUILDING AREA
Tabular Area: 6,000 square feet [Table 503]
Frontage Increase: +4,500 square feet [506.2]
Allowable Area: 10,500 square feet
Actual Area: 1,762 square feet each

BUILDING ELEMENTS
Building elements are permitted to be of non rated combustible construction [Table 601]

INCIDENTAL USE SEPARATIONS
None applicable. [Table 509]

AUTOMATIC SPRINKLERS
Not required - shelter does not have exterior walls, and therefore does not have any fire area [903.2.1.3]

FIRE ALARM SYSTEM
Not required, based upon an occupant load of less than 300 [907.2.1]

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

CONSULTANTS

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FIRST FLOOR PLAN

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

LICENSED ARCHITECT
SAM F. MILLER
REGISTERED
No. AR00880096
STATE OF INDIANA
ARCHITECT

Drawn By:	CMT
Checked By:	SFM
Quality Assurance:	SFM
Scale:	As indicated
Sheet:	A101
Date:	2020/04/21
Project Number:	990433-10705

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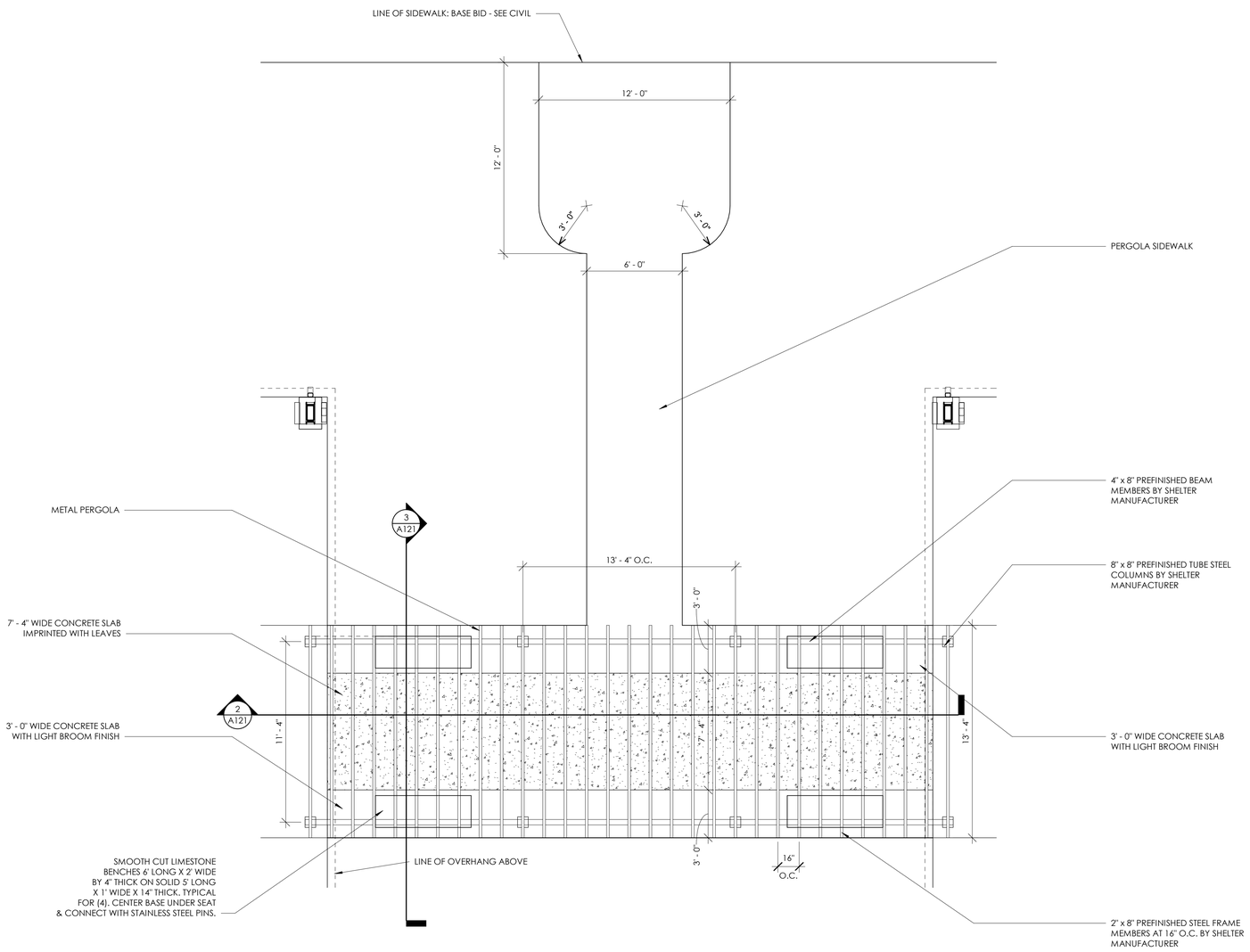
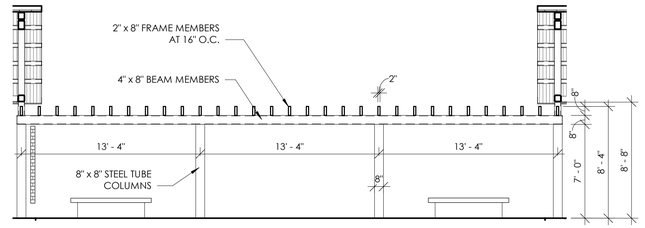
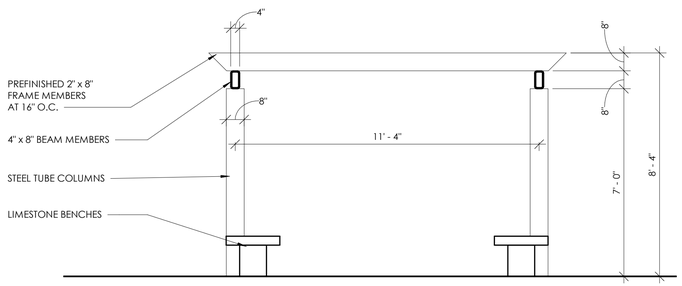


1 ALTERNATE: PERGOLA PLAN
1/4" = 1'-0"



2 PERGOLA SECTION
3/16" = 1'-0"



3 TRANSVERSE PERGOLA SECTION
3/8" = 1'-0"

NOTE: ALL PREFINISHED STEEL PERGOLA COMPONENTS ARE FURNISHED & INSTALLED BY THE SHELTER MANUFACTURER

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

CONSULTANTS

3939 PRIORITY WAY SOUTH DRIVE
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ALTERNATE METAL PERGOLA

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

Licensed Architect
SAM F. MILLER
REGISTERED
No. AR00880096
STATE OF INDIANA
ARCHITECT

Drawn By: CMT
Checked By: SFM
Quality Assurance: Approver
Scale: As indicated
Sheet: A121
Issue Date: 2020/04/21
Project Number: 990433-10705

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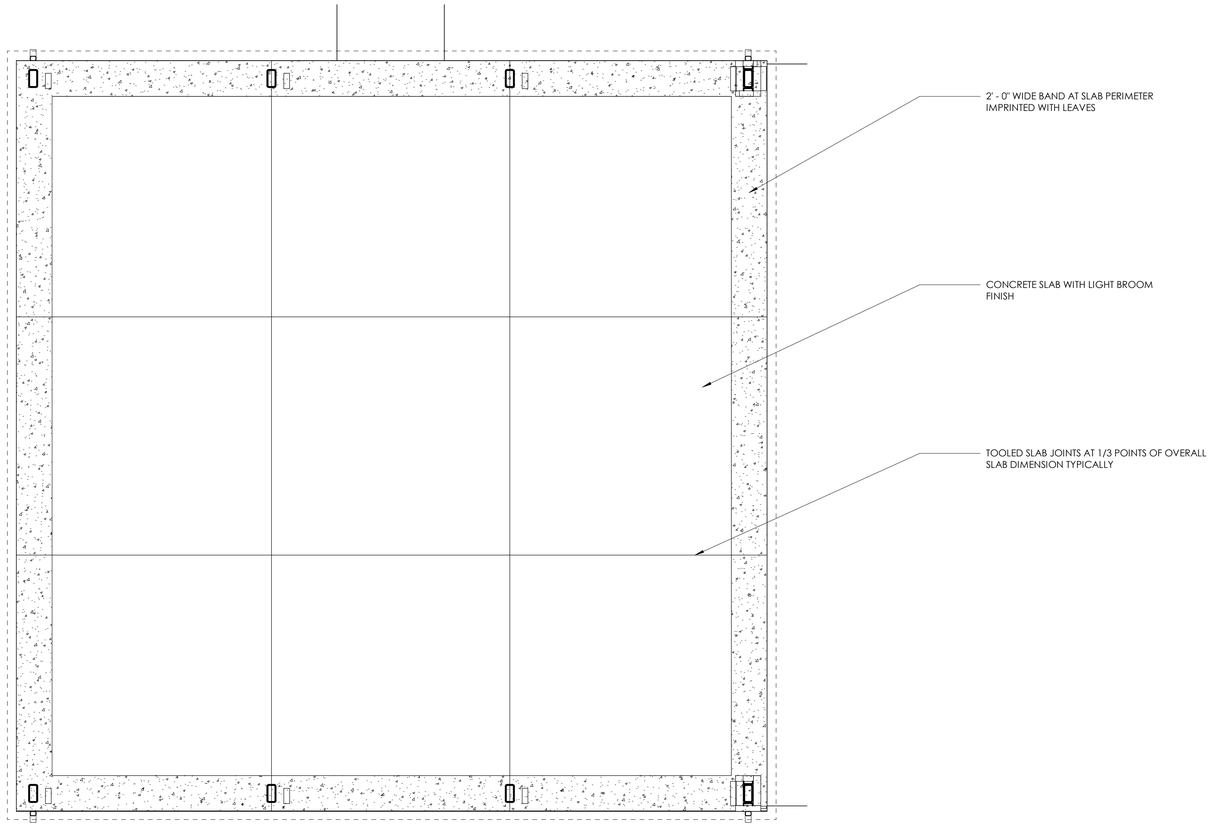

DIMENSIONS SAME FOR BOTH SHELTERS

1 ALTERNATE: CONCRETE SLAB FINISH PLAN

1/4" = 1'-0"

4/20/2020 4:53:48 PM

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

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ALTERNATE CONCRETE SLABS

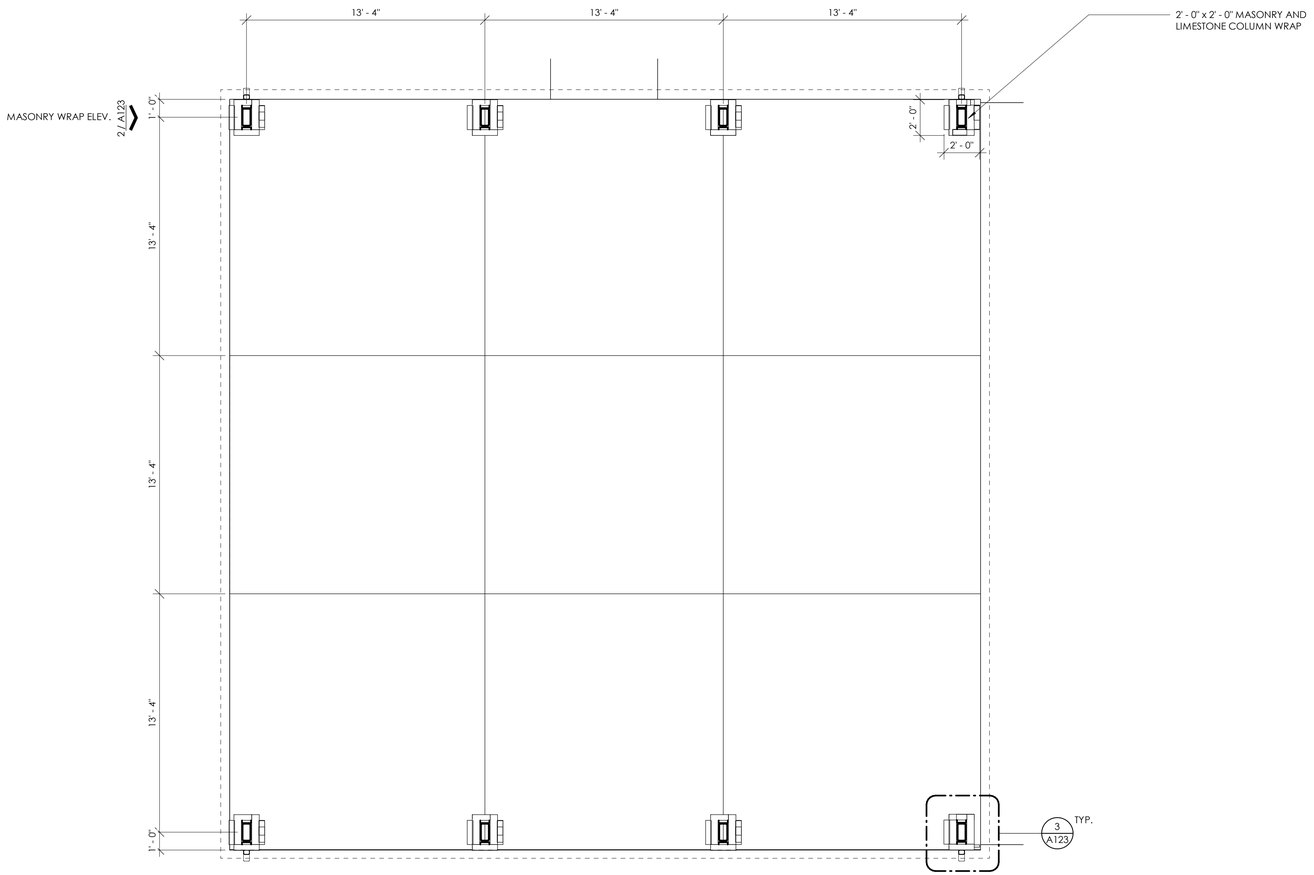
HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

CERTIFIED BY:

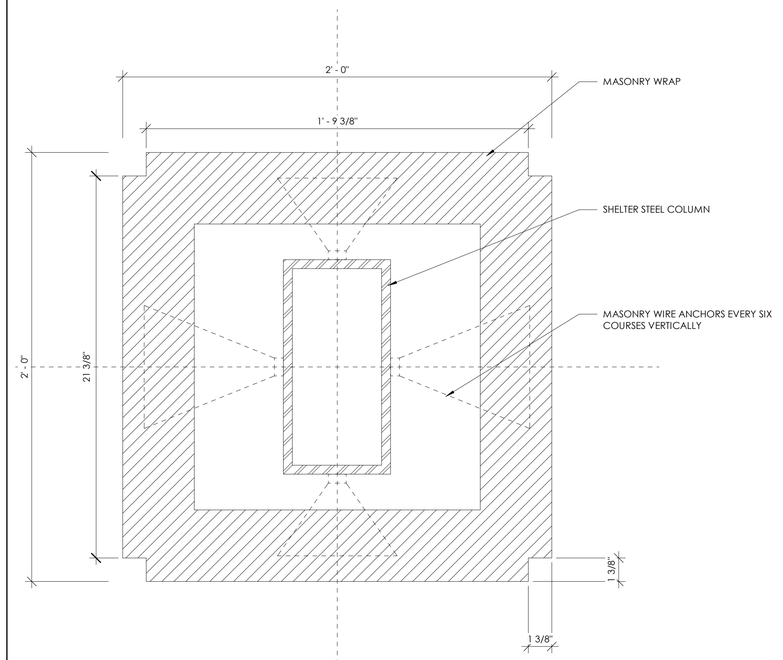
SAM F. MILLER
REGISTERED
No.
AR00880096
STATE OF
INDIANA
ARCHITECT

Drawn By: CMT
Checked By: SFM
Quality Assurance: Approver
Scale: 1/4" = 1'-0"
Sheet: A122
Date: 2020/04/21
Project Number: 990433-10705

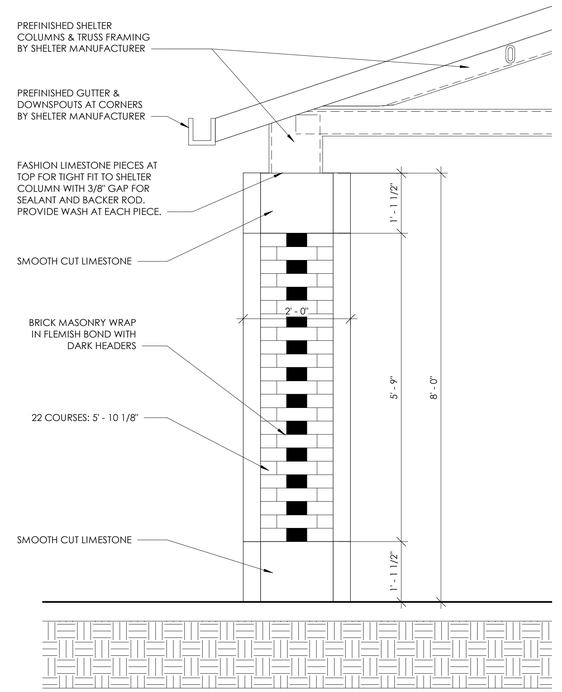


DIMENSIONS SAME FOR BOTH SHELTERS

1 MASONRY & STONE COLUMN WRAP PLAN
1/4" = 1'-0"



3 BRICK COLUMN WRAP DETAIL
3" = 1'-0"



2 COLUMN WRAP ELEVATION
3/4" = 1'-0"

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REVISION SCHEDULE

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MASONRY COLUMN WRAPS

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

License

SAM F. MILLER
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No. AR00880096
STATE OF INDIANA
ARCHITECT

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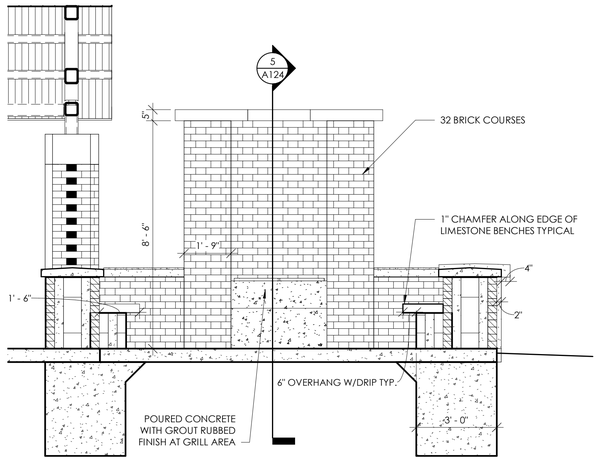
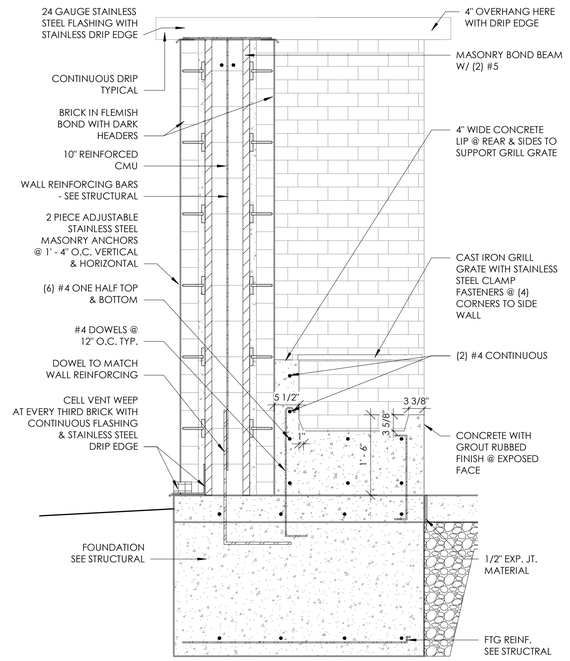
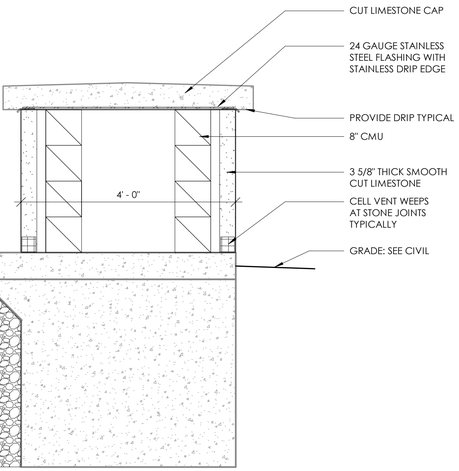


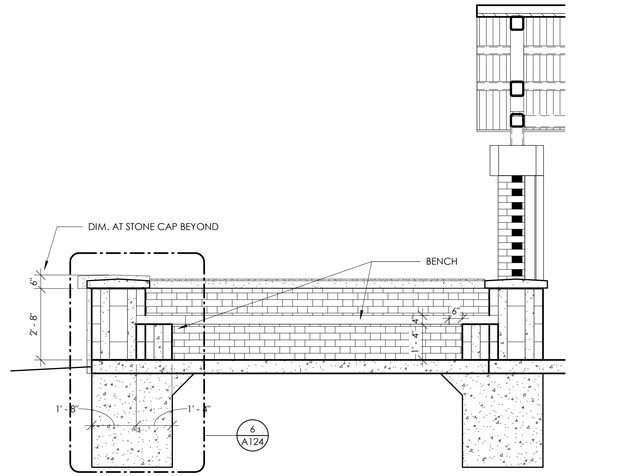
2 KNEE WALL - GRILL SECTION
3/8" = 1'-0"



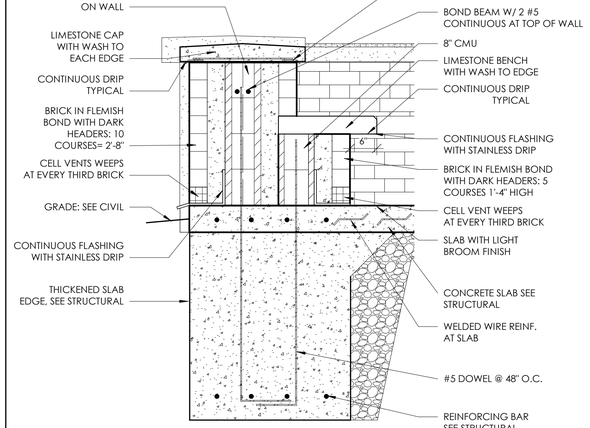
5 GRILL SECTION
3/4" = 1'-0"



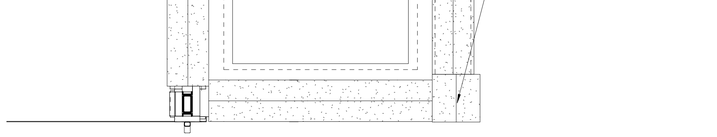
7 LIMESTONE COLUMN SECTION
3/4" = 1'-0"



3 KNEE WALL SEATING AREA SECTION
3/8" = 1'-0"

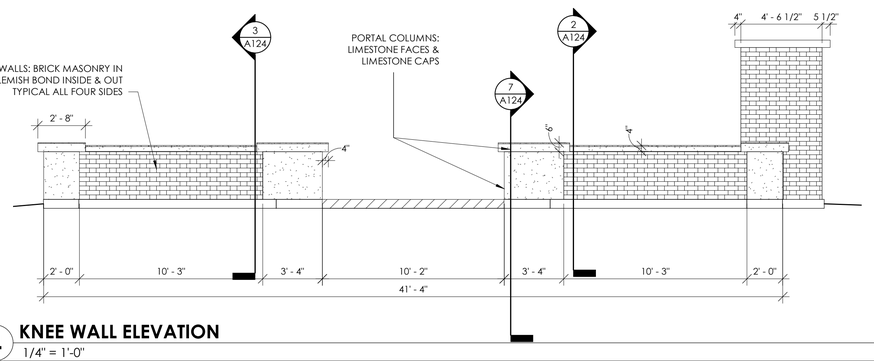


6 KNEE WALL SEATING AREA - Callout
3/4" = 1'-0"



DIMENSIONS SAME FOR BOTH GRILLING AREAS

1 ALTERNATE: MASONRY GRILLING AREA PLAN
1/4" = 1'-0"



4 KNEE WALL ELEVATION
1/4" = 1'-0"

4/20/2020 4:53:51 PM

REVISION SCHEDULE		
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CONSULTANTS

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ALTERNATE MASONRY GRILLING AREAS
HAMILTON COUNTY PARKS
CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

LISTED BY
SAM F. MILLER
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No. AR00880096
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ARCHITECT

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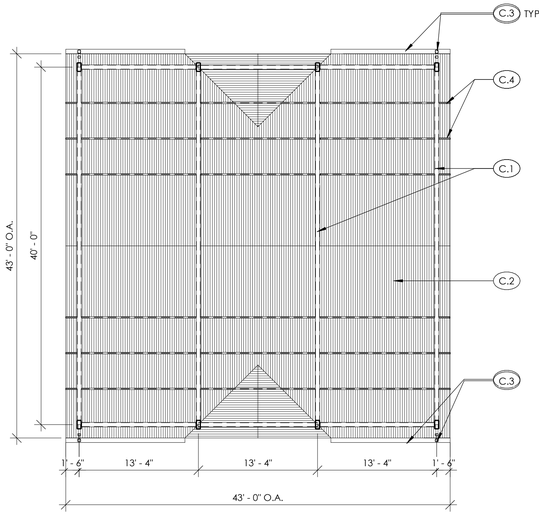
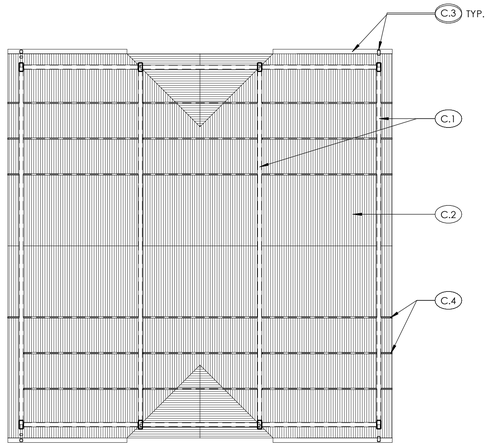
Checked By	SFM
Quality Assurance	Approver
Scale	As indicated
Sheet	A124
Date	2020/04/21
Project Number	990433-10705





DIMENSIONS SAME FOR BOTH SHELTERS

4 / A124

1 FIRST FLOOR - REFLECTED CEILING PLAN

1/8" = 1'-0"

NORTH

REFLECTED CEILING NOTES

A. REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL NOTES AND CEILING INFORMATION.

B. PROVIDE CONTROL JOINTS IN PLASTER & GYPSUM BOARD CEILINGS AND BUILKHEADS WHERE RECOMMENDED/REQUIRED BY MANUFACTURERS OR INDUSTRY STANDARDS, OR WHERE INDICATED. COORDINATE LOCATION WITH ARCHITECT.

C. ALL CEILING HEIGHTS ARE FROM FINISHED FLOOR.

D. INSTALL SUSPENDED CEILING GRID WITH EQUAL SIZE PANELS AT EACH SIDE OR END OF THE INDIVIDUAL SPACES UNLESS OTHERWISE INDICATED. NO PANEL SHALL BE LESS THAN 4" WIDE.

E. THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN THE LAYOUT OF ALL CEILING ELEMENTS AND/OR PENETRATIONS. COORDINATE ANY FIELD VERIFIED OR AS-BUILT CONDITIONS THAT DIFFER FROM WHAT IS SHOWN ON THESE PLANS WITH THE ARCHITECT.

F. SIZES AND SHAPES OF LIGHTING FIXTURES AND OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT (IF SHOWN) ARE FOR REFERENCE ONLY. COORDINATE ACTUAL SIZES AND TYPES WITH THE ELECTRICAL DRAWINGS/ENGINEER.

G. COORDINATE CLEARANCES WITH M.E.P. DRAWINGS. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO CONSTRUCTION.

H. SIZES OF MECHANICAL EQUIPMENT (IF SHOWN) ARE FOR REFERENCE OLY. COORDINATE ACTUAL SIZES AND TYPES WITH MECHANICAL DRAWINGS/ENGINEER.

I. ALL CEILING MOUNTED ITEMS (SPRINKLER HEADS, MOUNTING MECHANISMS, ETC.) SHALL BE CENTERED IN THE CEILING PANELS UNLESS OTHERWISE NOTED/INDICATED.

(#) CEILING PLAN KEYNOTES

C.1 PREFINISHED STEEL SHELTER STRUCTURE PROVIDED BY SHELTER SUPPLIER

C.2 EXPOSED 2 X 6 T&G WOOD DECK WITH FACTORY APPLIED CLEAR FINISH PROVIDED BY SHELTER SUPPLIER

C.3 PREFINISHED GUTTER & DOWNSPOUT PROVIDED BY SHELTER SUPPLIER

C.4 PREFINISHED STRUCTURLA STEEL PURLINS PROVIDED BY SHELTER SUPPLIER

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

CONSULTANTS

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REFLECTED CEILING PLAN

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

LICENSED ARCHITECT

SAM F. MILLER
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No. AR00880096
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ARCHITECT

Drawn By: CMT
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Quality Assurance: Approver
Scale: 1/8" = 1'-0"
Sheet: A201
Date: 2020/04/21
Project Number: 990433-10705

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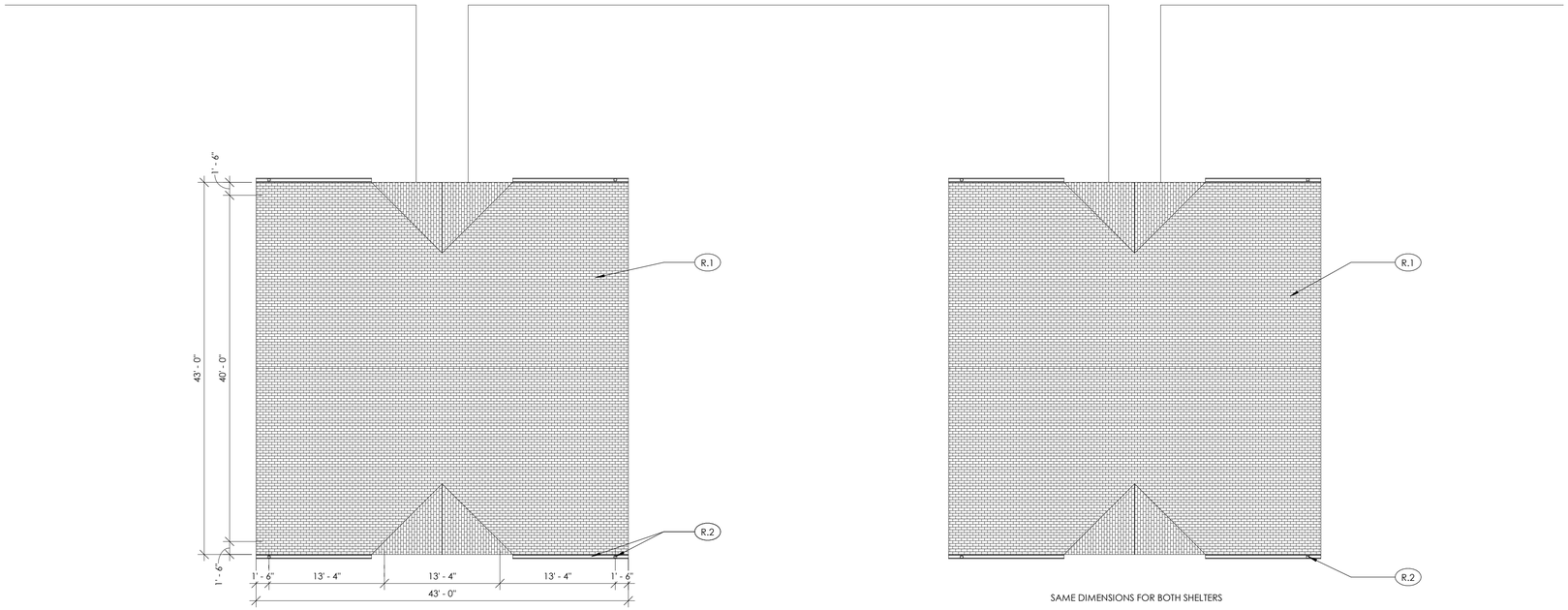

SAME DIMENSIONS FOR BOTH SHELTERS

1 ROOF PLAN

1/8" = 1'-0"

NORTH

ROOF PLAN LEGEND

- DIRECTION OF ROOF SLOPE
- EXHAUST FAN
- RELIEF FAN
- INTAKE AIR VENT
- H.P. — HIGH POINT
- ROOF HATCH
- RD / ORD — ROOF DRAIN AND OVERFLOW ROOF DRAIN
- ICE AND WATER SHEILD
- RIDGE VENT
- TAPERED INSULATION W/ EPDM ROOF SYSTEM
- NEW TAPERED INSULATION SADDLE

ROOF PLAN GENERAL NOTES

A. PROVIDE MANUFACTURER'S STANDARD DETAILS WHERE MECHANICAL EQUIPMENT OCCURS, COORDINATE W/ ARCHITECTURAL AND MEP.

B. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL ROOF PENETRATION REQUIRMENTS.

C. PROVIDE ICE AND WATER SHIELD AT ALL OVERHANGS (FROM EDGE OF ROOF TO 24" PAST INTERIOR LINE OF WALL), VALLEYS (3'-0" ON EACH SIDE), RIDGES (3'-0" ON EACH SIDE) AND HIPS (3'-0" ON EACH SIDE).

(#) ROOF PLAN KEYNOTES

R.1 METAL SHINGLES PROVIDED BY SHELTER SUPPLIER

R.2 GUTTER, DOWNSPOUTS & DOWNSPOUT BOOT LIKE ADVANCED DRAINAGE SYSTEMS POLYETHYLENE DOWNSPOUT ADAPTER PROVIDED BY SHELTER SUPPLIER

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

CONSULTANTS

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ROOF PLAN

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

SAM F. MILLER
REGISTERED
No. AR00880096
STATE OF INDIANA
ARCHITECT

Drawn By: CMT
Checked By: SFM
Quality Assurance: Approver
Scale: As indicated
Sheet: A401
Date: 2020/04/21
Project Number: 990433-10705

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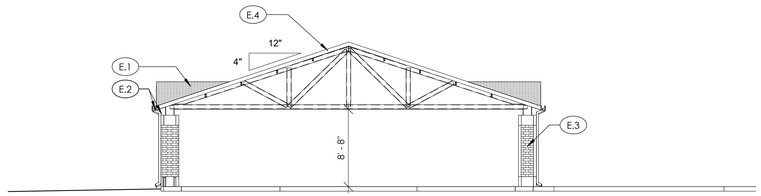
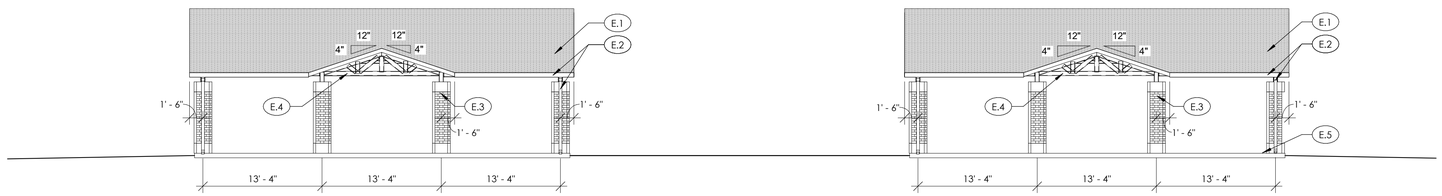
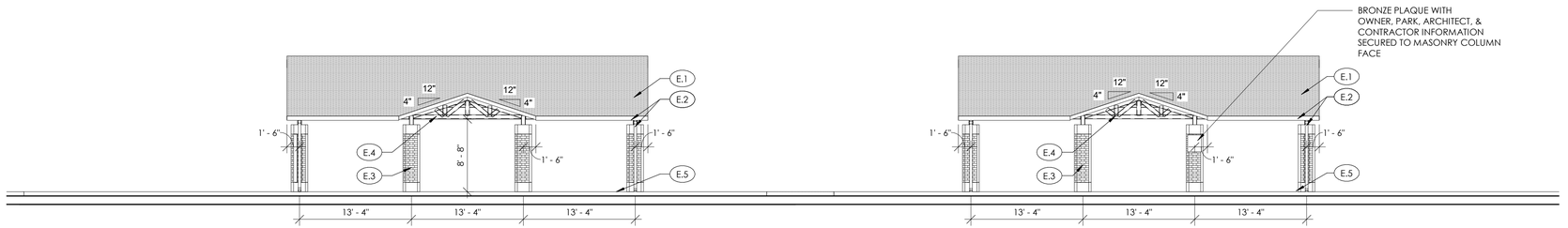


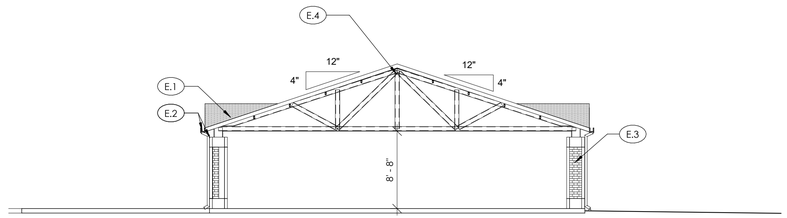
1 EAST
1/8" = 1'-0"



2 SOUTH
1/8" = 1'-0"



3 NORTH
1/8" = 1'-0"



4 WEST
1/8" = 1'-0"

EXTERIOR ELEVATION KEYNOTES

E.1	METAL SHINGLE ROOF PROVIDED BY SHELTER SUPPLIER
E.2	GUTTER AND DOWNSPOUTS PROVIDED BY SHELTER SUPPLIER
E.3	PREFINISHED STEEL COLUMN PROVIDED BY SHELTER SUPPLIER
E.4	PREFINISHED STEEL SHELTER STRUCTURE
E.5	CONCRETE SLAB WITH LIGHT BROOM FINISH

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

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EXTERIOR ELEVATIONS

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

Licensed Professional

SAM F. MILLER
REGISTERED
No. AR00880096
STATE OF INDIANA
ARCHITECT

Drawn By:	CMT
Checked By:	SFM
Quality Assurance:	Approver
Scale:	1/8" = 1'-0"
Sheet:	A501
Date:	2020/04/21
Project Number:	990433-10705

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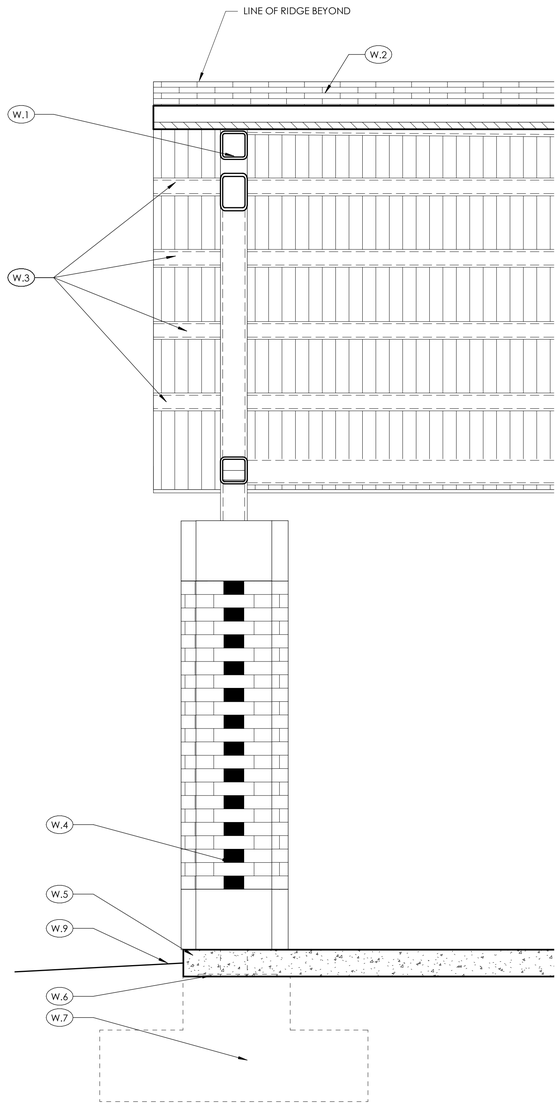
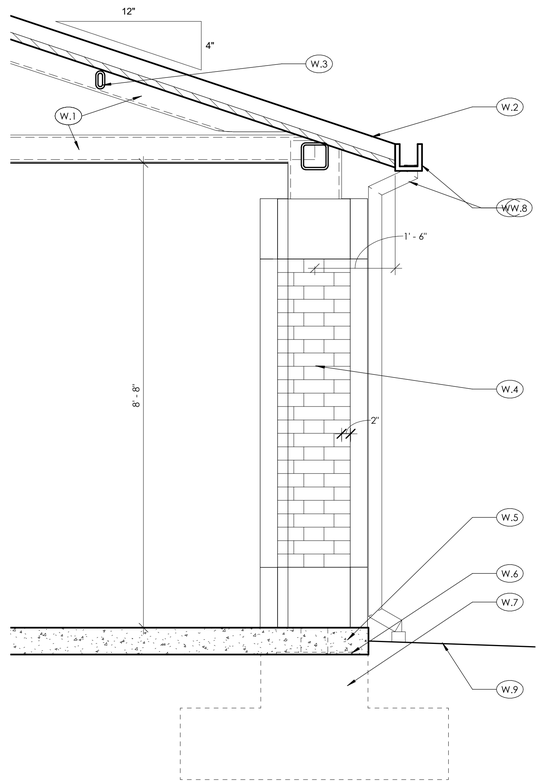


2 ROOF SECTION
3/4" = 1'-0"



1 COLUMN SECTION
3/4" = 1'-0"

WALL SECTION KEYNOTES

W.1	PREFINISHED TUBE STEEL TRUSSES PROVIDED BY SHELTER SUPPLIER
W.2	METAL ROOF SHINGLES PROVIDED BY SHELTER SUPPLIER
W.3	PREFINISHED STRUCTURAL STEEL PURLINS PROVIDED BY SHELTER SUPPLIER
W.4	PREFINISHED STEEL COLUMN PROVIDED BY SHELTER SUPPLIER
W.5	CONCRETE SLAB WITH LIGHT BROOM FINISH
W.6	RECESSED BASE PLATE. SEE STRUCTURAL
W.7	FOR COLUMN FOUNDATION, SEE STRUCTURAL
W.8	GUTTER & DOWNSPOUTS PROVIDED BY SHELTER SUPPLIER
W.9	GRADE: SEE CIVIL

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

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WALL SECTIONS

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

LICENSED ARCHITECT
SAM F. MILLER
REGISTERED
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ARCHITECT

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Sheet:	A611
Date:	2020/04/21
Project Number:	990433-10705

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ELECTRICAL ABBREVIATIONS

SYMBOL	DESCRIPTION
RMC	RIGID METALLIC CONDUIT
RVS	REVERSE
SCIC	SPECIAL COMMUNICATIONS INTERFACE CAB.
SEC	SECONDARY
SHT	SHEET
SN	SOLID NEUTRAL
SPST	SINGLE POLE SINGLE THROW
SSC	SOUND SYSTEM CABINET
STD	STANDARD
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
T	THROW
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TX	TRANSFORMER
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SYSTEM
V	VOLT
VA	VOLTAMPERES
W	WIRE/WATTS
WHM	WATT HOUR METER
WP	WEATHERPROOF
WT	WATERTIGHT
WW	WARM WHITE
XP	EXPLOSION PROOF

SYMBOL	DESCRIPTION
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	POLE
PA	PUBLIC ADDRESS
PAR	PERSONAL ALARM RECEIVER
PB	PULL BOX
PF	POWER FACTOR
PH, ○/	PHASE
PNL	PANEL
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE DUCT
PWR	POWER
(R)	REMOVE
(RR)	REMOVE AND RELOCATE
REQD	REQUIRED
RM	ROOM
RMS	ROOT MEAN SQUARE

SYMBOL	DESCRIPTION
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MCP	MOTOR CURRENT PROTECTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE/METAL HALIDE
MIN	MINIMUM
MOM	MOMENTARY
MT	EMPTY
MTD	MOUNTED
MTG	MOUNTING
(N)	NEW
NC	NORMALLY CLOSED
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN/NUMBER
NOR	NORMAL
NTS	NOT TO SCALE

SYMBOL	DESCRIPTION
JB	JUNCTION BOX
KA	KILOAMPERES
KCMIL	THOUSAND CIRCULAR MILS
KEC	KITCHEN EQUIPMENT CONTRACTOR
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
KWH	KILOWATT HOURS
LCL	LONG CONTINUOUS LOAD
LRA	LOCKED ROTOR AMPS
LT	LIGHT
LTG	LIGHTING
LV	LOW VOLTAGE
MATV	MASTER ANTENNAE TELEVISION
MAX	MAXIMUM
MC	MOTOR CONTROLLER

SYMBOL	DESCRIPTION
FLUOR	FLUORESCENT
FT	FOOT/FEET
GALV	GALVANIZED
GENR	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
GRD	GROUND
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HZ	HERTZ
ID	INSIDE DIAMETER
IMT	INTERMEDIATE METAL TUBING
INC	INCANDESCENT
IV	INVERT ELEVATION

SYMBOL	DESCRIPTION
DPST	DOUBLE POLE SINGLE THROW
DTL	DETAIL
DWG	DRAWING
EX	EXISTING
(ER)	EXISTING RELOCATE
ELEC	ELECTRIC/ELECTRICAL
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING CONDUIT
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
EWC	ELECTRIC WATER COOLER
FACP	FIRE ALARM CONTROL PANEL
(F)	FUTURE
F	FUSED
FA	FIRE ALARM
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE METAL CONDUIT

SYMBOL	DESCRIPTION
C	CONDUIT
CAB	CABINET
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
COMM	COMMUNICATIONS
CONTR	CONTRACTOR
CRT	CATHODE RAY TUBE (MONITOR)
CT	CURRENT TRANSFORMER
CU	COPPER
CW	COOL WHITE
CX	COAXIAL CABLE
DF	DRINKING FOUNTAIN
DGP	DATA GATHERING PANEL
DIA	DIAMETER
DP	DOUBLE POLE
DPDT	DOUBLE POLE DOUBLE THROW

SYMBOL	DESCRIPTION
#	NUMBER
2SP	2 SPEED
A	AMPERE (AMPS)
AC	ALTERNATING CURRENT
A/C	ABOVE COUNTER
ACCP	ACCESS PANEL
AF	AMPS-FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMP INTERRUPTING CURRENT
AT	AMPS-TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BIL	BASIC IMPULSE LEVEL
BLDG	BUILDING
BFG	BELOW FINISHED GRADE

ELECTRICAL SYMBOL LEGEND

(NOTE: ALL SYMBOLS MAY NOT BE USED)

POWER	
	DUPLEX RECEPTACLE SPLIT WIRED
	RECEPTACLE SPECIAL, NEMA CONFIGURATION
	FLUSH FLOOR OUTLET
	FLUSH FLOOR BOX, THREE GANG
BAT	EMERGENCY BATTERY UNIT
	RECEPTACLE, SINGLE
	RECEPTACLE, DUPLEX
	RECEPTACLE CEILING MOUNTED, DUPLEX
	RECEPTACLE, QUADPLEX
WP	RECEPTACLE, DUPLEX WEATHERPROOF ('WHILE-IN-USE' TYPE)
E	RECEPTACLE ON EMERGENCY CIRCUIT, RECEPTACLE AND PLATE SHALL BE RED
TL	RECEPTACLE, DUPLEX, EMERGENCY RED TWIST LOCK
GFI	RECEPTACLE, DUPLEX, GROUND FAULT CIRCUIT INTERRUPTER
USB	USB RECEPTACLE
	DOORBELL PUSH BUTTON
	DOOR BELL CHIME
T LV	TRANSFORMER, 120V TO LOW VOLTAGE
S	SECURITY ALARM POINT DOOR SWITCH
S	SECURITY DOOR LOCK RELEASE - ELECTRIC STRIKE
S	SECURITY MOTION DETECTOR
S	SECURITY ALARM BELL
C	CLOCK OUTLET
CC	CLOCK OUTLET WITH CONTROL STATION
TV	TELEVISION OUTLET (RG6)
J	JUNCTION BOX 4 11/16 x 4 11/16 x 2 1/8" UNLESS NOTED OTHERWISE
MDP	MAIN DISTRIBUTION OR POWER PANELBOARDS
	FLUSH OR SURFACE MOUNTED BRANCH PANELBOARDS 120/280V
	ELECTRICAL MOTOR CONNECTION - VERIFY HP, AND PHASE
	DISCONNECT SWITCH FOR MOTORS OVER 1/2HP
	MOTOR CONTROLLER WITH AUX CONTACTS HOA, PB, PILOT AND CONTROL TRANSFORMER.
TV A	TELEVISION OUTLET (RG6 AND 2-CAT6)
U	LOW VOLTAGE ULTRASONIC CEILING SENSOR 'SCHNEIDER ELECTRIC' #SLSCUS2000 (SENSOR); 'SCHNEIDER ELECTRIC' #SLSPP1277 (POWER PACK)

LIGHTS	
	SURFACE MOUNTED OR RECESSED LED FIXTURE
	WALL MOUNTED LED FIXTURE
	SURFACE/RECESSED 1 x 4 LED LIGHT FIXTURE
	SURFACE/RECESSED 2 x 4 LED LIGHT FIXTURE
	PHOTOCELL
	EXIT LIGHT FIXTURE CEILING MOUNTED
	EXIT LIGHT FIXTURE WALL MOUNTED
	LIGHT FIXTURE CONNECTED TO EMERGENCY POWER
	BATTERY OPERATED EMERGENCY LIGHT - WALL MOUNTED
	POLE MOUNTED LIGHT FIXTURE - SINGLE HEAD
	SURFACE / RECESSED LED FIXTURE
	WALL MOUNTED LED FIXTURE
	BOLLARD LIGHT FIXTURE
	FLOOD LIGHT GROUND MOUNTED

SWITCHES	
S	SWITCH, SINGLE POLE
S3	SWITCH, THREE-WAY
S4	SWITCH, FOUR-WAY
SD	SWITCH, DIMMER
SDS	SWITCH, DOOR SECURITY
SK	SWITCH, KEYED
SP	SWITCH, PILOT LIGHT
Sa	SWITCH, CONTROLLING FIXTURES MARKED WITH a
ST	SWITCH, MANUAL TIMER
STT	TT SWITCH FOR MOTORS 1/2HP OR SMALLER
	PUSH BUTTON CONTROL STATION
	PUSH BUTTON "UP-DOWN-DN"
	PANIC BUTTON
	MOTION DETECTOR
GB	SECURITY GLASS BREAK DETECTOR
PS	SINGLE CIRCUIT PIR WALL SENSOR 'SCHNEIDER ELECTRIC' #SLSPWS1277UX(COLOR).
PS2	DUAL CIRCUIT PIR WALL SENSOR 'SCHNEIDER ELECTRIC' #SLSPWD1277UX(COLOR).

FIRE	
I	IONIZATION SMOKE
H	THERMAL DETECTOR 135° FIXED
P	PHOTO DETECTOR PHOTO ELECTRIC
F	PULL STATION
	STROBE UNIT 30CD
D	FIRE ALARM, IONIZATION DUCT DETECTOR
PCO	COMBINATION PHOTOELECTRIC AND CARBON MONOXIDE DETECTOR
F.A.C.P.	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNICATOR PANEL
T	FIRE ALARM, TAMPER SWITCH
F	FIRE ALARM, FLOW SWITCH
F	HORN STROBE
S	FIRE ALARM, SPEAKER
S	FIRE ALARM, SPEAKER STROBE

COMMUNICATION / SECURITY	
	TELEPHONE OUTLET BOX AND COVER PLATE
P	TELEPHONE OUTLET BOX, AND COVER PLATE, PUBLIC
	TELEPHONE OUTLET FLOOR BOX WITH COVER PLATE
	TELEDATA OUTLET
	TELEDATA OUTLET FLOOR BOX WITH COVER PLATE
	DATA OUTLET
S	SPEAKER, FLUSH CEILING MOUNTED
S	SPEAKER, WALL MOUNTED
S	SPEAKER HORN TYPE, WALL MOUNTED
PA	SOUND SYSTEM AMPLIFIER
IC	INTERCOMM HANDSET
IC M	INTERCOMM MASTER PANEL
ICPS	INTERCOMM SYSTEM POWER SUPPLY
	DEMO: POINT WHERE EXISTING TO REMAIN STOPS AND DEMOLITION BEGINS REVISED: POINT WHERE NEW WORK CONNECTS TO EXISTING TO REMAIN
K	CARD KEY ACCESS DEVICE
	SECURITY CAMERA / SECURITY CAMERA (360°) / SECURITY CAMERA (360°)

NURSE CALL	
N DS	NURSE CALL, DUTY STATION
N SE	NURSE CALL, STAFF EMERGENCY
N SEL	NURSE CALL, SATELLITE EQUIPMENT LAB
N SPS	NURSE CALL, SATELLITE POWER SUPPLY
N MPS	NURSE CALL, MASTER POWER SUPPLY
N POW	NURSE CALL, POWER SUPPLY
N DLZ	NURSE CALL, DOME LIGHT, ZONE LIGHT
N DLSL	NURSE CALL, DOME LIGHT, SINGLE LAMP
N DLDC	NURSE CALL, DOME LIGHT, DUAL LAMP
N DLQL	NURSE CALL, DOME LIGHT, QUAD LAMP
N DLCI	NURSE CALL, DOME LIGHT WITH COUPLER INTERFACE
NURSE	NURSE CALL, CENTRAL EQUIPMENT CABINET
N CB	NURSE CALL, CODE BLUE BUTTON
N PS	NURSE CALL, PATIENT STATION
N SS	NURSE CALL, STAFF STATION
N DLB	NURSE CALL, CODE BLUE DOME LIGHT
N	NURSE CALL, FOOT OPERATED CALL SWITCH

WIRE	
	HOMERUN
or	WIRING CONCEALED IN CEILING OR WALL
— —	WIRING CONCEALED UNDER OR IN FLOOR
— · —	WIRING EMERGENCY
A B C	A= GROUND; B= NEUTRAL; C= HOT
	WIRING TURNED UP
	WIRING TURNED DOWN
	WIREMOLD APENDED NOTE DENOTES TYPE
	CABLE TRAY
—H—	HEAT TRACE CABLE
K	CARD KEY ACCESS CONTROL
F	CEILING MOUNTED FIRE ALARM HORN / STROBE
PS I	LOW VOLTAGE CEILING MOUNT PIR OCCUPANCY SENSOR 'SCHNEIDER ELECTRIC' #SLSCI2000 (SENSOR); 'SCHNEIDER ELECTRIC' #SLSPP1277 (POWER PACK).
PS D/T	LOW VOLTAGE CEILING MOUNT DUAL-TECHNOLOGY OCCUPANCY SENSOR 'SCHNEIDER ELECTRIC' #SLSCDT2000 (SENSOR); 'SCHNEIDER ELECTRIC' #SLSPP1277 (POWER PACK).

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

CONSULTANTS

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ELECTRICAL SYMBOLS & ABBREVIATIONS
HAMILTON COUNTY PARKS
CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

WILLIAM J. SNODGRASS REGISTERED No. 17006 STATE OF INDIANA PROFESSIONAL ENGINEER

Drawn By: BZ
Checked By: JS
Date Issued: DH
Scale: AS SHOWN
Sheet: E001
Date: 04/21/2020
Project Number: 20007

LIGHT FIXTURE SCHEDULE

TYPE	MOUNTING	LAMPS	WATTS	NOMINAL DIMENSION	MFGR & CAT NO. OR ACCEPTABLE EQUIVALENT	REMARKS
A	WALL	LED	12	-	R.G. LIGHTING R.D. #SLIM12 RGL	LED FLAT-CUTOFF WALL PACK - BRONZE
B	GROUND	LED	16	-	LITHONIA #DSXB-LED-350-40K-ASY-MVOLOT-DBLXD	LED GROUND MOUNTED BOLLARD

PANEL: 'RR' (EXIST.)
LOCATION: REST ROOM BLDG

VOLTS: 120/240
AMPS: 225
CKTS: 42
LUGS: MLO

MTG: SURFACE
PHASE: 1
WIRE: 3
FEED: BOTTOM

PROVIDE:

REMARKS	<LOAD> øA	<LOAD> øB	POLE	CIR. NO.		CIR. NO.	POLE	<LOAD> øA	<LOAD> øB	REMARKS
EXIST. LOAD			25	1		2	25			EXIST. LOAD
			2	3		4	2			
EXIST. LOAD			35	5		6	20			EXIST. LOAD
			2	7		8	2			
EXIST. LOAD			20	9		10	25			EXIST. LOAD
EXIST. LOAD			20	11		12	2			
EXIST. LOAD			20	13		14	20			EXIST. LOAD
EXIST. LOAD			20	15		16	20			EXIST. LOAD
EXIST. LOAD			20	17		18	20			SPARE
NEW BOLLARD LTG			20	19		20	20			SPARE
NEW WALL SCONCE LTG			20	21		22	20			SPARE
NEW RECEPTS - SHELTER			20	23		24	20			SPARE
NEW RECEPTS - SHELTER			20	25		26	20			SPARE
PHOTOCELL			20	27		28	20			SPARE
SPARE			20	29		30	20			SPARE
SPARE			20	31		32	20			SPARE
SPARE			20	33		34	20			SPARE
SPARE			20	35		36	20			SPARE
SPARE			20	37		38	20			SPARE
SPARE			20	39		40	20			SPARE
SPARE	-		20	41		42	20			SPARE
	-	-						-	-	

SCHEDULE OF CONDUIT APPLICATIONS

CONDUIT LOCATION OR APPLICATION	CONDUIT TYPE: RIGID	INTERMEDIATE	E.M.T.	FLEXIBLE	FLEXIBLE W/ M.P. JACKET	P.V.C. SCHED 40	A.C. CABLE		
IN CONCRETE SLAB (NOT LARGER THAN 1"G)		(3)				(2)			
BELOW LOWEST FLOOR SLAB		(3)				(2)			
CONCEALED IN WALLS, ABOVE CEILINGS AND IN FURRED SPACES		(3)	(1)						
INSIDE, ABOVE BOTTOM OF ROOF STEEL							◯		
FEEDER, POWER AND SIGNAL CIRCUITS RUN EXPOSED	(3)	(3)							
FINAL CONNECTION TO EQUIP. SUBJECT TO VIBRATION				◯					
FINAL CONNECTION TO EQUIP. IN DAMP LOCATIONS					◯				
SHORT CONNECTIONS WHERE NON-FLEXIBLE CONDUIT IS IMPRACTICAL				◯					

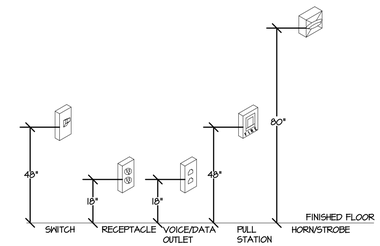
NOTE:

◯ - TYPE OF CONDUIT TO BE USED.

(1) - E.M.T. SHALL NOT BE USED IN SIZES LARGER THAN 2 INCH.

(2) - CONVERT TO RIGID OR INTER. THROUGH SLAB.

(3) - USE THREADED FITTINGS ONLY.

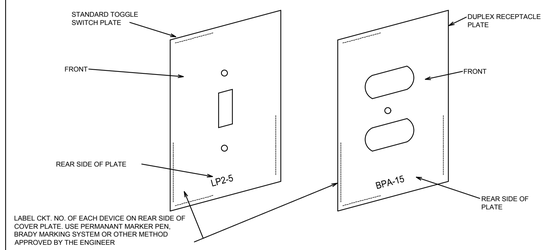


A

NOTE: ALL DIMENSIONS ARE TYPICAL FOR GIVEN DEVICE UNLESS OTHERWISE NOTED ON PLANS.

A4 OPERABLE DEVICE MOUNTING HEIGHT DETAIL

NOT TO SCALE

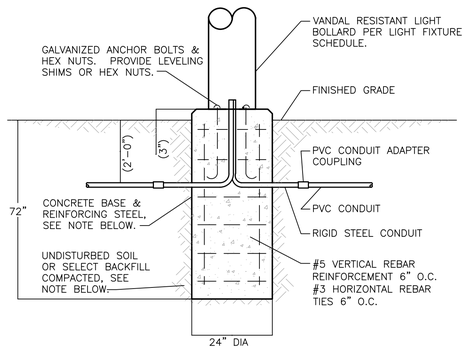


LABEL CKT. NO. OF EACH DEVICE ON REAR SIDE OF COVER PLATE. USE PERMANANT MARKER PEN, BRADY MARKING SYSTEM OR OTHER METHOD APPROVED BY THE ENGINEER

B

B4 ELECTRICAL IDENTIFICATION DETAIL

NO SCALE



C

GENERAL NOTES:

1. BACKFILL, CONCRETE, REINFORCING STEEL, AND ANCHOR BOLTS ARE SHOWN FOR REFERENCE ONLY. STRUCTURAL DESIGN IS SHOWN ON STRUCTURAL DRAWINGS.
2. REFER TO SPECIFICATION SECTION 26 56 00 FOR MOUNTING AND LEVELING REQUIREMENTS.

C4 BOLLARD BASE DETAIL

NO SCALE

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

CONSULTANTS

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ELECTRICAL DETAILS & SCHEDULES

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL

2000 W. 116TH STREET, CARMEL, IN 46032

Drawn By: BZ
Checked By: JS
Date Issued: DH
Scale: AS SHOWN
Sheet No.: E002
Date: 04/21/2020
Project Number: 20007

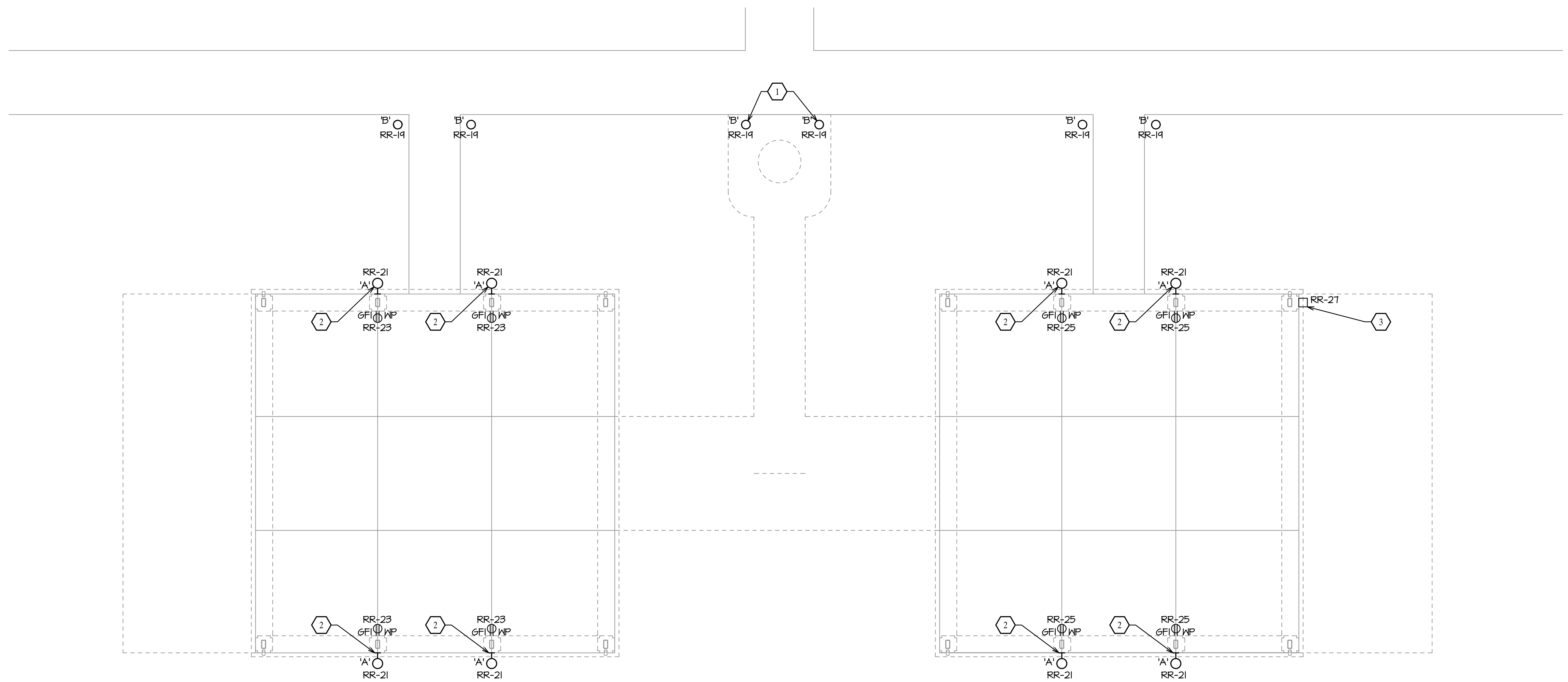
WILLIAM J. SNODGRASS REGISTERED No. 17006 STATE OF INDIANA PROFESSIONAL ENGINEER

GENERAL KEYED PLAN NOTES

1. PROVIDE CONCRETE BASE FOR ALL TYPE 'B' BOLLARD LIGHT FIXTURES, SEE DETAIL C4/E002.
2. MINIMUM CONDUIT SIZE SHALL BE 1"C. MINIMUM CONDUCTOR SIZE SHALL BE #10.

(#) KEYED PLAN NOTES

1. ALTERNATE #1 - PROVIDE ADDITIONAL PRICE TO THE BASE BID TO ADD TWO (2) TYPE 'B' BOLLARD LIGHTS FOR THE NEW PERGOLA.
2. INSTALL BRANCH CIRCUITS FOR RECEPTACLES AND WALL PACKS INSIDE NEW COLUMNS.
3. PROVIDE PHOTOCELL FOR CONTROL OF TYPE 'A' AND 'B' LIGHT FIXTURES. MOUNT AS HIGH AS POSSIBLE BELOW EAVE OF SHELTER. PHOTOCELL SHALL BE SIMILAR YO 'YORK' #2001.



FLOOR PLAN - ELECTRICAL

SCALE: 1/8" = 1'-0"

REVISION SCHEDULE
REVISION NUMBER | REVISION DATE | REVISION DESCRIPTION

CONSULTANTS

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FLOOR PLAN - ELECTRICAL
HAMILTON COUNTY PARKS
CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

WILLIAM J. SNODGRASS
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BZ
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DH
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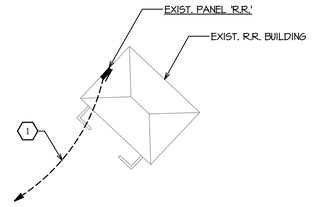
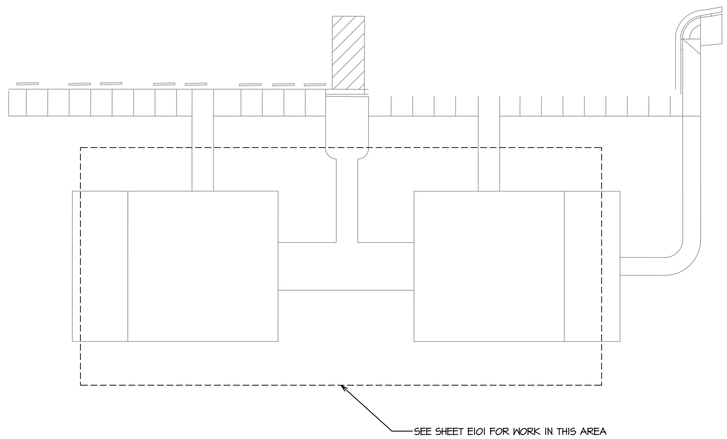
E101

04/21/2020
20007





KEYED PLAN NOTES

1. BRANCH CIRCUITS FOR FEEDS TO SHELTER. EACH BRANCH CIRCUIT SHALL 2-#10, 1-#10 GND IN A 1"C.

SITE PLAN - ELECTRICAL

SCALE: 1" = 20'-0"

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

CONSULTANTS

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SITE PLAN - ELECTRICAL

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

Signed

WILLIAM J. SNODGRASS
REGISTERED
No. 17006
STATE OF INDIANA
PROFESSIONAL ENGINEER

Drawn By: BZ

Checked By: JS

Quality Assurance: DH

Scale: AS SHOWN

Sheet: E201

Date: 04/21/2020

Project: 20007

ELECTRICAL SPECIFICATIONS:

1.0 GENERAL

1.1 All materials shall be as specified and approved by Underwriters Laboratories.

1.2 Provide a complete electrical system conduit system as indicated herein and/or on the drawings. The latest edition of The National Electric Code shall be the Minimum requirement for all work.

1.3 Any substitutions to manufacturers of equipment listed in these specifications must be approved in writing by the Owner's Engineer.

1.4 E.C. shall submit shop drawings of electrical switchgear to Architect/Engineer for review.

1.5 Shop drawings shall include:
A. Single line riser diagram of electrical system.
B. Completed schedules for all electric panels.

1.6 Drawings and Specifications: It shall be the Contractor's duty to examine and have thorough knowledge of the architectural, structural, electrical, mechanical and site work Drawings and Specifications.

1.6.1 The commencement of work under this Section indicated that the Contractor has examined and has knowledge of the architectural, structural, electrical, mechanical and site work Drawings and Specifications. The failure of the Contractor to acquaint himself with all available information shall not relieve him of any responsibility for performing his work properly.

1.6.2 No additional compensation shall be allowed because of conditions that occur due to the Contractor's failure to become thoroughly familiar with all of the Contract Documents for this project, as described above, and with the job site.

1.6.3 It shall be the Contractor's duty to notify the Architect and/or Engineer, in a timely manner, of any discrepancies, errors, omissions, ambiguities, or conflicts which were known or discovered during the course of the preparation of the bid or the conduct of work.

1.6.4 Unless expressly stipulated, no additional allowance will be made in the Contractor's and/or manufacturer's favor by virtue of errors, ambiguities and/or omissions which were known to or which should have been known or discovered during the preparation of the bid estimate and directed to the Architect and \ or Engineer's attention in a timely manner.

1.6.5 The Drawings and Specifications are intended to supplement one another. Any materials or labor called for in one but not the other shall be furnished as if both were mentioned in the Specifications and shown on the Drawings. Labor and/or materials neither shown nor specified, but necessary for the completion and proper functioning of the systems, shall be furnished and installed by this Contractor.

1.6.6 The Drawings are diagrammatic and are intended to depict the approximate locations of equipment, piping and apparatus. Dimensions given on the Drawings, in figures, shall take precedence over scaled dimensions. All dimensions, whether in figures or scaled, shall be verified in the field.

1.6.7 The plans show the arrangement of all fixtures, equipment and material and are not intended to show all details. Each and every accessory intended for the purpose of execution of the work is understood to be part of the work.

1.6.8 The location of equipment and pipe, as shown on the Drawings, is diagrammatic and schematic and it is the responsibility of the Contractor to make his own fabrication and installation drawings and layouts to eliminate all structural and other physical interferences without detriment to the structural, mechanical and architectural components of the building. The Contractor must organize the physical arrangement of the systems of material in the confines of the space in order for them to function and perform in accordance with the intent of the design. The Contractor is not responsible for the design performance; he is responsible for the development of installation and fabrication drawings for the installation of his equipment and material within the available spaces.

1.6.9 The Contractor shall carefully verify all measurements at the site, determine the exact location of all chases, openings, plenums and ceiling cavities required by his work and shall furnish and set all sleeves, inserts and hangers as required for the work herein. The Contractor shall verify actual job dimensions before fabrication of any materials, purchasing or installation of equipment.

1.7 Space Conditions: It shall be the Contractor's responsibility to verify that all apparatus, gear, fixtures, conduit, etc, shall fit into that available spaces in the building and must be introduced into the building at such times and in such manner as not to cause damage to the structure.

1.7.1 Where minor deviations from plans are required in order to conform to space limitations, such changes shall be made by the Contractor at no additional cost to the Owner and shall be subject to the approval of the Architect and/or Engineer.

1.7.2 All equipment normally requiring service shall be easily accessible.

1.8 Coordination and Conflicts: The Contractor shall coordinate his work so that it does not interfere with the work of other trades. It shall be the Contractor's responsibility to see that his work is installed in a timely manner.

1.8.1 In the event that there is a discrepancy or conflict in the plans or Specifications it shall be the Contractor's responsibility to notify the Architect and/or Engineer of this conflict or discrepancy prior to his acceptance of the project. Unless expressly stipulated, no additional allowance will be made in the Contractor's and/or Manufacturer's favor by virtue of errors, ambiguities and/or omissions which were known to or which should have been known or discovered during the presentation of the bid estimate and directed to the Architect's and/or Engineer's attention in a timely manner.

1.9 Guarantee: All equipment shall be started, tested, adjusted and placed in satisfactory operating condition by the Contractor. All equipment shall be covered for the duration of the Manufacturer's guarantee or warranty and the Contractor shall furnish the Owner with all Manufacturer's guarantee warranties.

1.9.1 Guarantee all work, materials and equipment for a period of one (1) year from date of acceptance by the Owner's Engineer. The Guarantee shall include full service adjustments, repairs and replacement parts at no expense to Owner, and to the complete satisfaction of the Owner's Engineer.

1.9.2 The Contractor shall furnish a letter addressed to the owner outlining the year's guarantees and advising that the completed systems have been installed in accordance with Plans and Specifications and that they are in proper operating condition.

1.10 Inspection Authority Certificate of Approval shall be furnished the Owner's Engineer before final acceptance will be given.

1.10.1 Provide any inspections and certificates required by local jurisdictional authorities to obtain acceptance of the specified equipment and the installation.

1.11 Submittals: Contractor agrees that Shop Drawing Submittals processed by the Engineer are not Change Orders; that the purpose of Shop Drawing Submittals by the Contractor is to demonstrate to the Engineer that the Contractor understands the design concept, that he demonstrates his understanding by indicating which equipment and materials he intends to furnish and install and by detailing the fabrication and installation methods he intends to use.

1.11.1 The Contractor further agrees that if deviations, discrepancies or conflicts between Shop Drawings and Specification are discovered either prior to or after Shop Drawing Submittals are processed by the Engineer, the design Drawings and Specifications shall control and shall be followed.

1.11.2 Where shop drawings are reviewed, said review does not in any way relieve the Contractor from the responsibility nor the necessity of furnishing material or performing work required by the Contract Drawings and Specifications.

1.11.3 Submittal review is considered as general acceptance of the basic applicability of the equipment. Contractor is responsible for the installation of any substituted equipment within a given space. When the Contractor desires to use substituted equipment, he shall be responsible for producing his own coordinated working drawings which depict the substituted equipment accommodated in the space. Where the substituted equipment creates the need for alterations in any portion of the work depicted in the contract documents, it shall be the Contractor's responsibility to notify all of the affected parties and coordinate these items with all other trades. Further, it shall be the Contractor's responsibility to assume any additional cost to the Contract created by the substituted equipment.

1.11.3.1. Substituted equipment is any equipment which deviates from the equipment specified herein, as the first named manufacturer or the equipment scheduled on the plans.

6.0 Method of Wiring

6.1 Conduit raceways shall be used for installation of all wiring where indicated on drawings.

6.1.1 Exposed conduit subject to mechanical injury shall be either full weight rigid steel (heavy-wall) type or intermediate metal conduit (I.M.C.) - Any conduits run in the mechanical room or electrical room not concealed in partitions, above finished ceilings or under the floor slab are considered exposed to mechanical injury. Either type shall have galvanized or equal finish. Conduit run exposed and not subject to mechanical injury, concealed above ceiling or in furred spaces may be electrical metallic tubing (E.M.T.) with galvanized or equal finish Aluminum conduit shall not be used in concrete or masonry, but is permitted for use where exposed and not subject to mechanical injury or where concealed above ceiling or in furred spaces. Conduit joints shall be made with standard conduit couplings, (no running-threads) cadmium plated. Schedule 40 PVC conduit is also permitted for use in masonry or concrete. Any feeder conduits which are PVC must be buried beneath the floor slab - not in the concrete. Any exposed conduit projections out of concrete slab must be changed to rigid steel or I.M.C. at the surface of the slab. Rigid steel or I.M.C. conduit is required in concrete or masonry Construction.

6.1.2 Conduit shall not be smaller than 3/4' nominal trade size, except for switch legs or where expressly noted.

6.1.3 Install all conduits as near bottom chord of joists as practical. All conduits must be securely fastened and adequately supported. Perforated straps will not be permitted. All suspended conduits must be supported on a trapeze using 'Unistrut' and bolted hanger construction. Conduits supported using suspended ceiling system (either tee bars or hanger wires) will not be permitted.

6.1.4 All conduit sizing for branch circuits shall be based on the use of Type THW code grade insulation. This method of sizing shall be used regardless of insulation type used in the conduit.

6.1.5 All conduits shall be concealed.

6.1.6 Pull boxes and junction boxes shall be installed where indicated on the drawings or where required to facilitate wire installation.

6.1.7 Cutting of structural concrete or steel to facilitate wiring installation will not be permitted without written approval of the Owner's Engineer.

6.1.8 All exposed conduit shall be run rectilinear with building construction using concentric bends.

6.1.9 Control circuit conduits (w/pull wires) under floor and in ceiling shall be as shown on drawings or as required.

REVISION SCHEDULE

REVISION NUMBER	REVISION DATE	REVISION DESCRIPTION

CONSULTANTS

DESIGN-AIRE ENGINEERING, INC
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• ARCHITECTURE • INTERIORS
• CIVIL ENGINEERING
• SURVEY • 3D LASER SCANNING
• PROJECT MANAGEMENT
• EQUIPMENT PLANNING
• REAL ESTATE SERVICES

ELECTRICAL SPECIFICATIONS

HAMILTON COUNTY PARKS

CLAY TOWNSHIP CHILDREN'S PAVILION AT COXHALL
2000 W. 116TH STREET, CARMEL, IN 46032

SIGNED

WILLIAM J. SNODGRASS
REGISTERED
No. 17006
STATE OF INDIANA
PROFESSIONAL ENGINEER

Drawn By: BZ

Checked By: JS

Quality Control: DH

Scale: AS SHOWN

Sheet: E301

Date: 04/21/2020

Project: 20007